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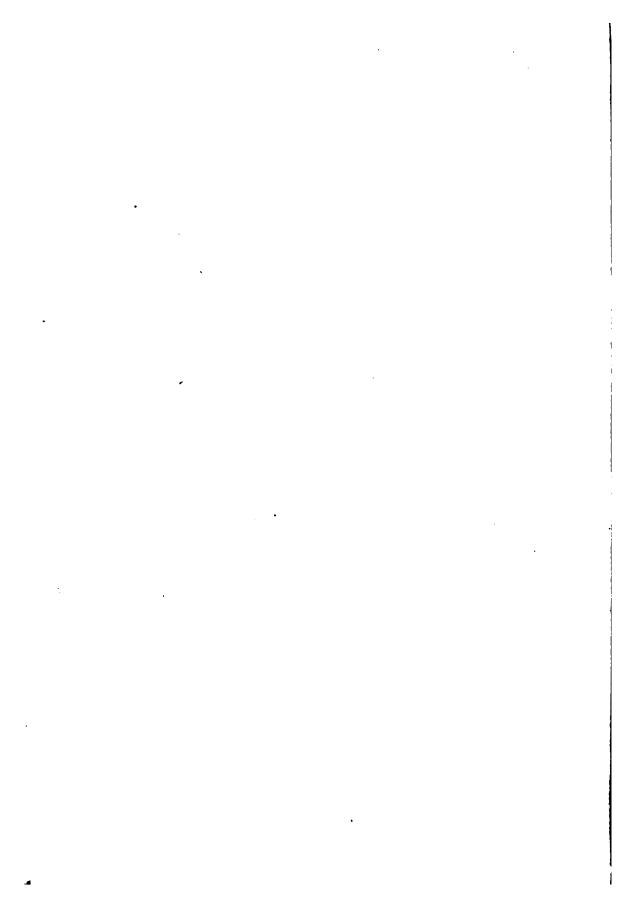
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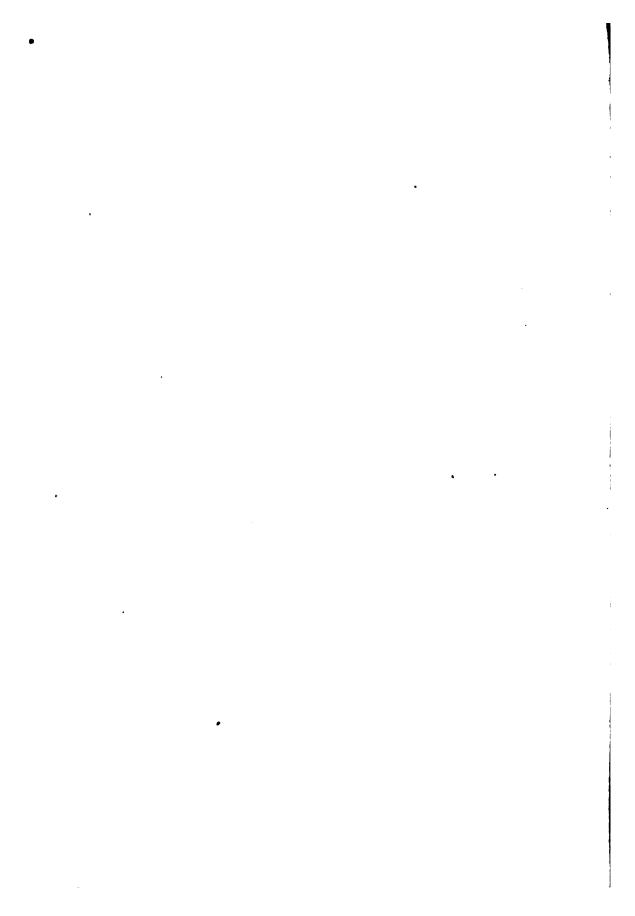
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## EIGHTEENTH ANNUAL REPORT

OF THE

# COMMISSIONER OF RAILROADS

## STATE OF MICHIGAN!

FOR THE YEAR 1890.



BY AUTHORITY.

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## TABLE OF CONTENTS.

REPORT OF COMMISSIONER.	i
Official Orders and Circulars, 1890.	1
Schedule of new Corporations, Etc.	<b>zlvii</b> i
EXPENSE ACCOUNT OF OFFICE, OCT. 1, 1889, TO SEPT. 30, 1890.	lxviii
Opinion In Re. Taxation of Lake Shore & Michigan Southern Bailboad Co. Under Pro-	
VISIONS OF THE GENERAL RAILROAD LAW	lxix
Company Reports, 1889	2
STATISTICAL TABLES COMPILED FROM COMPANY REPORTS, 1889	626

• . • • • . . . . • .

## INDEX TO COMMISSIONER'S REPORT.

IDENTS.
Statement of, 1889
Collisions .
Coupling of cars
Derailments
Falling from trains, etc
rogs
Jetting off and on trains
Highway collisions
Prespassers on trains and tracks
Employés killed and injured
lysis, earnings and expenses
andix
andix. ortionment of primary school money, 1890.
ortionment of State tax
ortionment of State tal.
matic couplers. age passenger rates, 1889.
age passenger rates, 1589
k signals
GES.
Descriptive list of, in Michigan.
lewly built or renewed, 1889.
ings
tal atock
tal stock alties and causes of same, 1889.
niuro min Cource of Ballie, 1009.
le guards
lars issued 1889-90
•
STRUCTION Progress of, 1838 to 1889 (table)
rogress of, 1838 to 1889 (table)
tatement of, for 1890
ification of traffic panies increasing indebtedness, 1889
panies incressing indebtedness, 1889
nemice decreasing indebtedness, 1989
pany deficits, statement of pany debit balances, statement of
neny dehit helances etatement of
ingion
porations
Analysis of
xcess of stock and debt to (statement)
erts
51NG8
Farm
Reilroad
lighway and street
lesidence.
••
MODITIES MOVED.
tatement of per cents, 1885 to 1889
MODITIES MOVED. tendement of per cents, 1885 to 1889 tendement of tonnage and rate per ton per mile, 1874 to 1889
GAGO AND GRAND TRUNK R'Y Co.:
Analysis passenger traffic 1889.
Preight rate 1889
riangus 1940 1994
Non-market Planta Planta
DAGO AND NORTHWESTERN R'Y Co.:
Analysis passenger traffic 1899
Wasiett sate 1990

	Page.
DEFIGITS: Earnings to expenses. In general socount. Statement of companies reporting, 1889.	
Farnings to expenses.	xvii
Statement of companies reporting 1990	zvli zvii
Statement of Companies reporting, 1009.	7411
DEBIT BALANCES:	
Statement of companies reporting, 1889.	<b>zvi</b> i
•	
DIVIDENDS Statement of, declared and paid, 1889 Dividends and interest	xvii
Statement of, declared and paid, 1889	xviii
Dividends and interest	<b>xv</b> iii
DETROIT, GRAND HAVEN AND MILWAUERE R'Y Co.: Analysis passenger traffic, 1889. Freight rate, 1889.	
Analysis passenger trainc, 1889	xix
rreight rate, 1009	XX
DEFENDANT LANGUAGE AND NORMERON PIN	
Detroit, Lansing and Northern R'd: Analysis of passenger traffic, 1889. Analysis of freight rate, 1884.	xix
Analysis of freight rate, 1884	XX
V	
Duluth, South Shore and Atlantic:	
Analysis of passenger rates, 1869 Freight rate of, 1839	xix
Freight rate of, 1889	XX
B	
EARNINGS AND RIPENSES:	_227
Analysis earnings	ziii ziii
Earnings classified, 1888 and 1889 compared	xiii
Analysis expenses Earnings classified, 1888 and 1889 compared Statement of, 1885 to 1888	xvi
Expenses, Interest and Rentals:	
Comparative statement of 1888 and 1889.	xiii
<u>.</u>	٠
EQUIPMENT	xxii
Express temperatetion of 1998 and 1990 companed	xxii
Excess—Stock and debt over cost statement	ziii zi
Earnings and expenses, compared statement 5 years	xvi
Employes, classification of 1889	XXX
List of, 1889.  Express transportation of 1888 and 1889 compared.  Excess—Stock and debt over cost statement.  Exrnings and expenses, compared statement 5 years.  Employés, classification of 1889.  Fences.  Finances	XXX
Fences Friances Freights Freight forwarded in Michigan, table 12 A Freight traffic, comparative statement. Freight transportation of, 1888 and 1889 compared Freight moved 1 mile, 1874 to 1889 Falling from trains Fixed charges	<b>xi</b> i
Freight forwarded in Michigan, table 12 A	xix 750
Freight traffic, comparative statement	xix
Freight, transportation of, 1888 and 1889 compared	xix
Freight moved I mile, 1874 to 1889	XXI
Kivad sharosa	xxxiii xvi
Value Value But	~**
FLINT AND PERE MARQUETTE R. R. ('O.: Analysis passenger traffic, 1889. Freight rate 1889. General balance sheet. General deficits.	
Analysis passenger traffic, 1889	xix
Freight rate 1899	XX Xii
General deficits	zvii
	ATI
General Exhibit. Revenue and disbursements. Balances and general balance sheet. General expenses and taxes, 1838 and 1889 compared.	<b>x</b> ii
Revenue and disbursements.	<b>x</b> ii
Balances and general balance sheet	xii
General expenses and taxes, 1888 and 1889 compared	XV
Grand Brown and Tomaria D. D. Cla	
GRAND RAPIDS AND INDIANA R. R. ('O.:	xix
Analysis passenger traine, 1008	XIX
Highway and street crossings	xxix
Highway collisions	xxxiii
GRAND BAPIDS AND INDIANA R. R. CO.: Analysis passenger traffic, 1899. Freight rate, 1889. Highway and street crossings Highway collisions. Income from other sources than operating.	X.
INDESTEINESS	ix
Indestedness Analysis of Increase and decrease (statement)	ix
	•
Interest:	
Analysis, account of. On funded debt. On unfunded debt.	xvi
On funded debt	<b>xv</b> i
On unrunged geot	xvi
Summan and Duranta.	
INTEREST AND RENTALS: For year 1889. Compared with 1898 nterlocking and derailing switches	zvi
Compared with 1848	xvii
nterlocking and derailing switches	xxvii

## INDEX TO COMMISSIONER'S REPORT.

ake Shore and Michigan Southern R'y Co.:	PA
A 1 2 A 400 1000	
Freight rate 1889	
gislation recommended.	· XX
ocomotives, equipment of	X.
ail, transportation of 1888 and 1889 compared	
aintenance of way and buildings, 1888 and 1889 compared	
Analysis passenger traint, 1009  Freight rate 1889.  gislation recommended.  comotives, equipment of.  ail, transportation of 1888 and 1889 compared  aintenance of way and buildings, 1888 and 1889 compared  echanical engineer's report.	
LWAUKER, LAKE SHORE AND WESTERN R'Y.:	
alysis of passenger rates, 1889	
Freight rate, 1889	•
Florgity 1000, 1000	
CHIGAN CENTRAL RAILBOAD CO.:	
Analysis of nessenger rates 1990	
Freight rate, 1889	
chiogan tonnaona 1890	
tive nower and rolling stock	. x
chigan tonnage, 1889. tive power and rolling stock w corporations, 1889-80.	xĪ
* 002 postavella, 2000 00	
fice Expenses:	_
Detailed statement of	. lx
erating expenses	
erating expenses classified.	
erating expenses, interest and rentals	
erating receipts in addition to earnings	
nion of Atkinson et al. Lake Shore & Michigan Southern Railway Co.	
cial orders	1,
eenger business 1889	
rating expenses classified. rating expenses classified. rating expenses, interest and rentals. rating receipts in addition to earnings. nion of Atkinson et al. Lake Shore & Michigan Southern Railway Co cial orders. senger business 1889. senger transportation of 1888 and 1889 compared.	
MANENT WAY	. :
Raila	
Ties	
Track sections	•
Trestles	
Track renewals	
Calverts	
Bridges.	. :
Rnildings	
Buildings Crossings, railroad	x
Cynosings paridones	
Crossings, highway and street	
Crossings, residence. Crossings, highway and street. centage of commodities moved, 1885 to 1889.	
ventrage of commodities moved, 1885 to 1889	
vata milroada	•
wints in addition to traffic earnings	•
ling stock, maintenance of 1883 to 1889 compared	
ety heaters	
nala	
ety heaters nals ocial chartered roads	XX
tions and amployee	
tions and employés. tement of casualties and causes, 1889.	
or and Debt	
Analysis of	_
Analysis of	_
tches split or safety	. x:
ck building	
tches split or safety ck building ck, new, 1889	
OR MILEAGE.	
Increase, 1889.	_
Decrease, 1889	_
Traffic	
	. :
AIN MILEAGE	. :
AIN MILEAGE Passenger trains	_ :
Freight trains	
Freight trains	-
Passenger trains Freight trains ck sections	-
Passenger trains Freight trains ock sections	٠,
Passenger trains Freight trains ock sections	٠,
Passenger trains Freight trains .cck sections.  AFFIC Passenger Statement of for—companies	- - 2
Passenger trains Freight trains ock sections.  AFFIC Passenger Passenger Statement of for—companies	- - 2
Passenger trains Freight trains ock sections  AFFIC Passenger Statement of for—companies Freight Statement of for—companies	- - ; - ;
Passenger trains Freight trains  AFFIC Passenger Statement of for—companies Freight Statement of for—companies Exact miles and construction	- ; - ; - ;
Passenger trains Freight trains  AFFIC Passenger Statement of for—companies Freight Statement of for—companies Exact miles and construction	- ; - ; - ;
Passenger trains Freight trains  AFFIC Passenger Statement of for—companies Freight Statement of for—companies statement of for—companies ack mileage and construction ain mileage. ansportation, conducting of, 1888 and 1889 compared.	- 3
Passenger trains  Freight trains  Statement of for—companies  Freight.  Statement of for—companies  Statement of for—companies  statement of for—companies  ask mileage and construction  sin mileage ansportation, conducting of, 1889 and 1889 compared ble of failroad construction, 1888 to 1889.	- 2
Passenger trains Freight trains Statement of for—companies Freight Statement of for—companies sort mileage and construction ain mileage.  sin mileage and construction, 1888 and 1889 compared ble of failroad construction, 1888 to 1889.	- 2
AFFIC Passenger Statement of for—companies Freight Statement of for—companies sck mileage and construction ain mileage ansportation, conducting of, 1888 and 1889 compared ble of failroad construction, 1888 to 1889.	- 2
Passenger trains Freight trains Statement of for—companies Freight Statement of for—companies sort mileage and construction ain mileage.  sin mileage and construction, 1888 and 1889 compared ble of failroad construction, 1888 to 1889.	- 2
Passenger trains  Freight trains  Statement of for—companies  Freight.  Statement of for—companies  Statement of for—companies  statement of for—companies  ask mileage and construction  sin mileage ansportation, conducting of, 1889 and 1889 compared ble of failroad construction, 1888 to 1889.	- :

_					PA	GE.
ľA	BLES, LIST OF, FOLLOWING COMPANY REPORTS: Accidents, No. 17, A. B. C. Analysis of Earnings and Expenses, No. 10.	<b>69</b> 0,	<b>6</b> 92,	694,	696,	698
	Capital Stock, No. 3 Comparative Summary of Returns, 1888-9, No. 18					682 702
	Comparative Summary of Returns, 1885 to 1889, No. 19					704 638
	Earnings (Traffic), No. 7.					644 650
	Expenses, No. 9. Equipment, No. 18. General Exhibit No. 1—Revenue and Disbursements.					672 626
	General Exhibit No. 2—Balances	<b></b>				628 648
	Income from all Sources, No. 8	<b>.</b>				636
	Permanent Way, Nos. 15, 15 A, 15 B. Stations, Employes, No. 14.					674
	Taxation, No. 16. Tonnage and Commodities Moved, Nos. 12, 12 A				684.	
	Train Mileage and Traffic, Nos. 11, 11 A, 11 B.  Track Mileage, No. 6.	<b></b> .		656,	<b>658</b> ,	662

### ANNUAL REPORTS

# OF RAILROAD CORPORATIONS OWNING AND OPERATING ROADS WITHIN THE STATE OF MICHIGAN.

# MADE TO THE COMMISSIONER OF RAILROADS FOR THE YEAR ENDING DECEMBER 31, 1889.

	PAGE.
Battle Creek & Sturgis	. 97
Bay City & Battle Creek	
Bear Lake & Fastern	602
Canada Southern Bridge Co. Chicago, Detroit & Canada Grand Trunk Junction Railway Co.	. 58
Chicago, Detroit & Canada Grand Trunk Junction Railway Co.	201
Chicago & Grand Tennk Railway Co	110
Chicago & Grand Trunk Railway Co. Chicago, Kalamazoo & Saginaw Railway Co.	507
Chicago & Northwestern Railway Co.	12
Chicago & West Michigan Railway Co.	424
Cincinnati Jackson & Mackinaw	401
Cincinnati, Jackson & Mackinaw Cincinnati, Jackson & Mackinaw (W. H. Brown, receiver)	412
Cincinnati, Wabash & Michigan Railway Co.	225
Crawford & Manistee River R. R. Co.	
Detroit & Rev City R R Co	62
Detroit & Ray ('ity B. R. Co. Detroit, Bay City & Alpena R. B. Co.	174
Detwoit & Change R R Co	836
Detroit & Chicago R. R. Co. Detroit, Grand Haven & Milwaukee Railway Co.	126
Detroit, Hillsdale & Southwestern R. R. Co.	337
Detroit, Lansing & Northern R. R. Co.	. 441
Detroit Monroe & Rolade P P Co.	840
Detroit, Monroe & Toledo R. B. Co. Detroit Union Railroad Depot & Station Co.	581
Duluth, South Shore & Atlantic	276
Flint & Pere Marquette R. B. ('o.	855
Fort Wayne & Jackson R. R. Co.	343
Frankfort & Southeastern	373
Frankfort & Southeastern. Grand Rapids & Indiana R. R. Co. Grand Rapids, Lansing & Detroit R. R. Co.	876
Grand Papids Vancing Is Detect D D Co	508
Grand Bapace, Lambing & Dentite It. It. Co.	65
Grand River Valley R. R. Grass Lake & Manistee B. R. Co.	582
Hancock & Calumet R. B. Co.	255
Hecla & Torch Lake B. B. Co.	615
Hobart & Manistee River R. R. Co.	589
House & Manusco Miver R. B. Co.	68
Jackson, Lansing & Saginaw R. R. Co. Kalamazoo, Allegan & Grand Rapids R. R. Co.	346
Rainmarco, Anegan & Viranu Rapius R. B. (0.	71
Kalamazoo & South Haven R. R. Co. Kalamazoo & White Pigeon R. R. Co.	349
Labo Conntra D D Co	609
Lake County R. R. Co. Lake Shore & Michigan Southern Railway Co.	316
Maniato Silvie & Michigan Southern Rahway Co.	578
Manistee & Luther R. R. Co. Manistee & Northeastern R. R. Co.	527
Manister & Northeastern B. R. Co.	88
Manistique Railway Co Marquette, Houghton & Ontonagon B. R. Co.	
Marquette, noughton & Ontonagon B. R. (0.	298 298
Marquette & Western R. R. C.	
Mason & Oceana R. R. Co.	213
Michigan Air Line Railway ('o.	213 74
Michigan Air Line R. R. Co.	'84
Michigan ('entral R. R. Co. Michigan Midland & Canada Railway Co.	. 184 77
michigan michang & Canaga Kanway Co	. 77

	PAGE.
Milwaukee, Lake Shore & Western Railway Co.	238
Milwankaa & Northarn R R Co	489
Milwaukee & Northern R. R. Co. Minneapolis, St. Paul & Sault Ste. Marie Ry. Co.	474
Mineapone, ot Pain a Baut Ste. Marie Ry. Co.	265
Mineral Range R. R. Co. Muskegon, Grand Rapids & Indiana R. R. Co.	. 200
Muskegon, Grand Rapids & Indiana R. R. Co.	. 393
North Branch & Sauble River R. R. Co.	. 597
Northern Central Michigan R. R. Co.	. 858
Ontonagon & Brule River R. R. Co.	_ 5 <b>3</b> 8
Pontiac, Oxford & Northern R. R. Co.	. 164
Saginaw & Grand Rapids R. R. Co.	. 468
Saginaw Bay & Northwestern R. R. Co.	81
Saginaw, Tuscola & Huron R. R. Co.	189
Saginaw & Western R. R. Co.	471
Saginaw Valley & St. Louis R. R. Co.	456
St. Louis, Sturgis & Battle Creek Railway Co.	. 107
Toledo, Ann Arbor & North Michigan Railway Co.	301
Toledo, Canada Southern & Detroit R. R. Co.	
Toledo, Saginaw & Mackinaw R. R. Co.	. 525
Toledo, Saginaw & Muskegon R. R. Co.	
Toledo & South Haven R. R. Co.	
Traverse City R. R. Co.	. 397
Wabash R. H. Co.	
Wisconsin Central R. R. Co.	545

## REPORT.

STATE OF MICHIGAN.

OFFICE OF THE COMMISSIONER OF RAILBOADS,

Lansing, December 1, 1890.

Hon. Cyrus G. Luce,

Governor of the State of Michigan:

SIR—As required by the organic law of this department, I respectfully hand you herewith, the eighteenth annual report from this office, covering the several returns of the mileage, traffic and financial condition of rail-road corporations doing business in this state during the year ending December 31, 1889. It also includes such matters of current administration as are of interest alike to the companies and the public, with such recommendations for the enactment of new laws or amendments to those already in force, as practical experience has in the judgment of the Commissioner, having due regard to the welfare of the State and its

people shown to be desirable.

So rapid has been the development of the railroad system of this country, and so vast the interest involved, in the construction and operation, that it could hardly be expected that legislation would be had, in all cases, in exact harmony with the varied conditions incidental to the properties, service and traffic of our internal systems of transportation. far as I am able to judge from reports received from other states the situation in Michigan will compare favorably with that of any other, in the general acquiescence of our railroad corporations in the laws passed for their government, the satisfactory working of such laws, and the general condition of prosperity resultant therefrom. The continued investment of capital for the extension of our railroads into districts not already provided with transportation facilities, and the construction of laterals to the lines previously in operation, demonstrate the wisdom of conservative legislation for the encouragement of them and projected enterprises to be realized in the near future. The legislation of this State has been exceptional in that it has not sought to regulate in detail the classification of freight nor the tariff charges for their carriage. A law authorized by the constitution, in force for many years has fixed a maximum for car load rates. But in the absence of statutory provisions determining what number of pounds should constitute a car load, and the largely increased size of cars from those in use at the time the law was enacted, has rendered the provisions practically inoperative and rates are generally quoted per the hundred weight or per ton per mile. Shippers appear satisfied with the situation, no complaints of unreasonable rates having reached this office during the year and the average freight rate for Michigan railroads continuing the lowest of any in the country with the possible exception of Ohio. The last legislature as you are aware passed a graduated law regulating passenger rates which went into effect about the 1st of October, of last year. At first some of the companies affected by the provision of the law, complied with its requirements, while others declined to do so. Those so complying soon returned to the three cent rate authorized previously to the passage of the act in question and made up a test case for adjudication in the courts.

The case was argued and reargued in our supreme court upon appeal from the circuit, where the validity of the act was upheld but at this writing the court of last resort has not handed down its opinion and consequently the enforcement of the law has remained in abeyance. From the very limited number of earnings statements that reached this office from companies for a time complying with the law, it was not possible to determine what its effect would be upon the revenues of such Companies, or upon the rates charged by connecting or competeing lines not directly affected by the change of rates contemplated by the statute. But one of the great trunk lines of the State, the Chicago & Grand Trunk, came within the two cent rate; its competitors, the Michigan Central and Lake Shore and Michigan Southern Companies, having special charters, and therefore not amenable to the provisions

of the general railroad law.

Should the courts finally affirm the constitutionality of the law, its enforcement may have the effect expected by its framers and result in a general reduction of passenger fares to two cents per mile on all the principal lines in the state. What the effect of such an outcome would be on the financial condition of the companies is problematical. it is not improbable that the older and stronger companies might without serious impairment of income be limited to a two cent rate it can scarcely be doubted that such a reduction would work great hardship upon the newer and local lines, and reduce their earnings to a sum insufficient to pay fixed charges, and in some cases perhaps, even running expenses. In my judgment it is of the highest importance that in legislation upon this subject, the efficient maintenance of the properties should not be lost sight of. Any policy that would compel the companies to permit their plants to retrograde from their present desirable condition would be a mistaken one. Our people are as much interested in having safe and speedy transportation as they are in having it cheap. The corporations are cooperating with the department for the enforcement of the police regulations of the State in provision for all those safe-guards which have been devised for the protection of the public and employés such as power and air brakes, automatic couplers improved car heaters interlocking and derailing systems at railroad crossings, safety gates at street and highway crossings, safety signals at frequent intervals along the tracks whereby the movements of trains are accelerated and secured against danger of collisions, and many other appliances of similar character, expensive of erection and maintenance. but important factors in the saving of human life and limb, and in all

of which our Michigan companies are rapidly coming to be fully abreast of the inventive genius of the age—

#### CORPORATIONS.

The present report includes returns as required by law, of seventy-three corporations of which sixty-five are classified as commercial roads built for purposes of general traffic, and eight, ore or forest roads used for the movement of forest or mining products exclusively. The latter class with few exceptions must be regarded as ephemeral in character, as they are dismantled and abandoned when the timber contiguous to them is cut and carried away to mills or market. The number of corporations reported is one in excess of last year. Of the commercial roads, including the Detroit Union Railroad Depot and Station Company twenty-six are leased or proprietary concerns, leaving thirty-nine corporations owning or controlling, and operating the general traffic roads of the state; with those of the ore and forest roads forty-seven in all. The corporate status of the list of Michigan companies is not essentially

changed from our last report.

The Chicago and Canada Southern has been reorganized as the Detroit and Chicago Railroad and takes its place among the proprietary properties of the Lake Shore and Michigan Southern Company. The Port Huron and Northwestern has been merged with the Flint and Pere Marquette under the enabling act of 1888, and the Manistee and Northeastern Railroad and Wisconsin Central Company appear with their first reports to this department. The latter company reports for its entire system, embracing a mileage of 346.29 miles, only 13.74 of which are in this State, comprised in what is known as the Gogebic and Montreal River Division. It is apparent that the report for 1889 was made by this company through misapprehension of our law, and should have been restricted to figures for the Gogebic and Montreal River only. Since the rendition of the report as printed, the company has filed an amended report to conform to the existing facts which materially change the figures as first given.

Since the close of the last year the Battle Creek and Sturgis road has been acquired by the Michigan Central and Lake Shore and Michigan Southern Companies and divided at Findley, giving to the former 34 and to the latter 37 miles of what was formerly known as the Canada and St. Louis Railway between Battle Creek in this state and Goshen in the state of Indiana and now operated by them as a part of

their respective systems.

The Milwaukee and Northern Railroad reporting, including the Ontonagon and Brule River Division a track mileage of 366.55 miles of which 106.85 are in Michigan, has recently passed under the control of the Chicago, Milwaukee and St. Paul Railroad Company and will hereafter form a part of the vast system of that corporation which has in operation nearly or quite 6,000 miles of road, extending into the remotest portion of the great northwest.

It is also understood that the Wisconsin Central properties have been leased in perpetuity to the Northern Pacific Railway Company which will in future operate them as a portion of its own system, including the short line in Michigan incorporated as the Gogebic and Montreal River Railroad, thus giving our state a representation in the great

transcontinental road that now extends from lake Superior to the Pacific ocean with branches and laterals ramifying nearly every part of the vast territory it traverses, making an operative system of three

thousand five hundred miles of road.

The Canadian Pacific Company whose great property forms another transcontinental roadway stretching from the Atlantic to the Pacific with branches extending to nearly every important point in the settled portions of British North America not to be outflanked by their more southern rival, the Northern Pacific, has secured control of the Duluth South Shore and Atlantic system and the Michigan Division of the Minneapolis, St. Paul and Sault Ste. Marie road in the Upper Peninsula both of which properties will hereafter be operated under the auspices of the great Canadian company, making the Sault an entrepot of its vast trade between the oceans.

The Cincinnati, Saginaw and Mackinaw railroad constructed by Saginaw capitalists between Durand and Bay City to give an additional outlet for the immense traffic of the Saginaw valley, has recently passed under the control of the Chicago and Grand Trunk Railway Company by which corporation it will hereafter be operated as a part of the important Canada Grand Trunk system in Michigan. During the past year the construction of a tunnel under the St. Clair river at Port Huron has been successfully accomplished, and the great work will soon be completed and trains passing through it giving the Grand Trunk continuous rail for its immense traffic from Chicago to tide water. The importance of this enterprise in its effect upon the transportation question in this country can hardly be overestimated.

The Cincinnati, Jackson and Mackinaw property is still in the hands of a receiver but its increasing business warrants the belief that a new company will soon be organized for the management of its affairs on a

permanent basis.

Since the last report from this office the Toledo and South Haven Railroad has also passed into the hands of a receiver where it will probably remain until means can be found for its extension and con-

sequent larger traffic.

From the report compiled at the State Department it would seem that the spirit for railroad building has suffered little or no diminution during the last year. From October 1, 1889 to September 30, 1890, articles of association for 15 new railroad corporations with capital stock of \$14,403,000 and projected new lines of track of 929 miles were filed with the Secretary of State. Some of the enterprises contemplated by the new organizations are already in process of construction, and others doubtless will be commenced another season and pushed to completion as fast as resources at hand will permit. The Allegan and Lake Shore, the Colfax and Big Rapids, the Mecosta, and the Paris and Pere Marquette River, all forest roads have been taken up and abandoned, the timber in their vicinity having been lumbered. The Buckley and Douglas, another forest road, has been absorbed by the Manistee and Northeastern.

#### TRACK MILEAGE.

The total miles of track owned by Railroad Companies doing business in Michigan December 31, 1889, was 12,480.88, an increase of 835.35 or

7.17% from the preceding year. Of this mileage 6,759.55 miles were in the state being in excess of last report 347.89 miles and 5.43%. The total miles operated was 14,722.61, 7,018.73 being in Michigan or 48.35% of the entire systems reported. The foregoing exhibit falls short of the total mileage at the close of the last year, as estimated in our last annual report, 13.84 miles, some of the companies falling short of the estimates of new mileage by them transmitted to this office.

The following statement exhibits in detail the increase or decrease of

track as reported by the several companies for the year 1889.

Statement of changes in track mileage owned in Michigan during the year ending December 31, 1889.

Companies.	Increase. Miles.	Decrease. Miles.
General Traffic Roads.		
Battle Creek & Sturgis	41.50	
Bay City & Battle Creek		
Chicago & Canada Southern,—transferred to L. S. & M. S.		62.94
Chicago, Kalamazoo & Saginaw	13.62	
Chicago & Northwestern		
Chicago & Northwestern. Cincinnati, Saginaw & Mackinaw	62.00	
Detroit, Bay City & Alpena.	4.89	
Duluth, South Shore & Atlantic.		
Marquette, Houghton & Ontonagon		
Marquette & Western		1.82
Flint & Pere Marquette	27.36	1.02
Frankfort & South Eastern		
Frankfort & South Eastern	22.00	.71
Grand Rapids & Indiana Lake Shore & Michigan Southern, (C. & C. S.)	62.94	
Manistee & North Eastern	18.86	
Manistique		
Mason & Oceana		
Michigan Air Line Ry.	3.43	
Detroit & Bay City.		
Seginaw & Northwestern	2.10	
Milwankee, Lake Shore & Western	.04	
Milwaukee & Northern		
Ontonagon & Brule River	26.10	
Toledo, Ann Arbor & North Michigan		
Wisconsin Central	13.74	
Ore and Forest Roads.		1
Allows & Yoke Ohers (Abandoned and Asker un)	Į.	4.00
Allegan & Lake Shore (Abandoned and taken up)		8.00
Buckley & Douglas (Now Manistee & N. E.) Colfax & Big Rapids (Abandoned and taken up)		10.00
Collect of Dig naples (Abandoned and taken up)		10.00
Crawford & Manistee River	3.00	
Grass Lake & Manistee River	1.50	
Manistee & Luther		
Mecosta		10.00
North Branch & Sauble River. Paris & Pere Marquette River (abandoned and taken up)	10.00	16,00
Total	461.36	113.4
Total	401.00	110.21

<sup>\*</sup> Grass Lake & Manistee River.

#### PRIVATE RAILROADS.

In this connection I again call attention to the fact that there are in addition to the track owned and operated by the regular incorporated companies, several hundred miles of railroad controlled by private parties or copartnerships. It is believed that these concerns largely escape taxation, and also ignore the police regulations enacted for the protection of the public and railroad employés. Their tracks in some instances

are built across those of the regularly incorporated roads at grade, and are not provided with the safe-guards, essential to safe operation of either property, while the equipments used by the private concerns are frequently very deficient in appliances absolutely necessary to the safety of their employés. I respectfully recommend that the provisions of the general railroad Laws be extended over private and tram railroads to bring them within the scope of the police regulations of the state and that the jurisdiction of the Commissioner be extended for the proper enforcement of the same.

#### CONSTRUCTION 1890.

While the amount of new track laid during the current year has not equalled the mileage of either of the two previous years, still the work has been fairly active and in the aggregate adds—miles to the track reported at the close of the last year as shown by reports sent to this office to enable it to estimate the entire track that will be opened for operation in the State December 31, 1890. You are respectfully referred to the accompanying statement for details of the new construction.

STATEMENT.—Approximately showing Mileage of New Main Track completed in Michigan during the year ending December 31, 1890.

Companies.	Miles.
Chicago & Grand Trunk Chicago & Northwestern	11.0
Chicago & Nortawestern Chicago & West Michigan Detroit, Bay City & Alpena.	74.0
Detroit, Langing & Northern.	6.4
Frand Rapids & Indiana Indiana & Lake Michigan, (Vandalia Line) Manistee & Northeastern	25. 23.
Manistique	6.0

In addition to the foregoing the following new lines with estimated mileage as below given are under active construction and expected to be open for traffic the next season.

The Grand Rapids Chicago and St. Louis.		
Grand Rapids to New Buffalo	100 ı	niles
The Escanaba Iron Mountain & Western,		
Menominee River to Little Bay de Noc	<b>54</b>	"
The Manistee & Grand Rapids Railroad,		
Manistee to Grand Rapids	115 ı	niles.
The Iron Range & Huron Bay Railroad,		
Champion to Huron Bay	<b>5</b> 0	"
The Manistee and North Eastern,		
Traverse City Extension	20	46
In all 339 miles.		

Surveys have been completed and maps of location approved or filed for approval with the State Board of Railroad Crossings for the following:

The Chicago & West Michigan Charlevoix extension		
Traverse City to Charlevoix	<b>75</b>	miles.
The Columbus Lima & Milwaukee Railway,		
Between Allegan and Saugatuck	25	"
The Detroit & Toledo Railroad,		
Detroit to Ohio State Line	55	"
The Lake Michigan and Lake Superior Railroad,		
Gladstone to Palmer, Upper Peninsula	70	46

These lines it is understood are to be put under contract in the near future and pushed to completion during 1891 making a probable aggregate of new roads to be constructed the next year, of 564 miles, exclusive of a number of short roads and extensions not included in this calculation, which will give an estimated increase of our track mileage of at least six hundred miles.

The present seems a fitting occasion to briefly review the progress made in the construction of railroads in Michigan during the last decade. December \$1, 1879, the entire mileage in the State was 3,657. December 31, 1889, as per foregoing statement it had increased to 6,759.55, 84.84%; at the former date we had one mile of railroad to each sixteen square miles of territory and at the latter, one for each 8.73 square miles. The Upper Peninsula ten years ago had 282.77 miles of track. Now it has nearly thirteen hundred miles. Every county in that once remote portion of our State being provided with railroad facilities. In the Lower Peninsula every county save three is similarly favored, and another year will doubtless see these last in line with the others in that particular. At the close of 1879, there were 809 railroad stations and 14,774 employés in the State, which at the close of 1889, had increased to 1,435 stations and 24,105 employés, figures that unerringly indicate the rapid development of our railroad system during the last decade.

I subjoin the statement which has been continued in these reports through many years giving the statistics of construction in this State

since 1838:

Table showing Progress of Railroad Construction in Michigan from 1838 to 1889 inclusive.

Years.	Miles.	Years.	Miles.
-00		4004	
<b>38</b>	68	1864	89
89	71	1865	93
40	104	1966	94
41	147	1867	1,06
42	147	1868	1,12
48	180	1889	1,96
44	220	1870	1.7
45	223	1871	2,2
46	279	1872	2,8
47	279	1878	8,2
48	826	1874	3,8
40	858	1875	
			8,3
50	880	1876	8,4
51	421	1877	3,4
5ż	425	1878	3,
58	425	1879	8,6
54	425	1880	8.8
55	462	1881	4,5
56	530	1882	4.6
57	579	1888	1 23
			· ·
58	708	1884	5,1
59	770	1885	5,
80	770	1886	5,
81	777	1887	5.
62	811	1888	6.
70	812	1889	6.
08	014	1004	Ι Ο,

#### CAPITAL STOCK.

The reports continue to show large accretions to the stock accounts of our railroad corporations; your attention is respectfully directed to tabular statement No. 3 accompanying this report for full details appertaining to the capital reported as being invested on our railroad system. The whole number of shares issued of different par value of each share, is stated at 3,707,051, representing different classes of stock as follows.

Common Preferred	\$259,658,048 31 94,544,947 84
Paid in on shares not issued	\$354,202,996 15 1,746,276 69
-	\$355,949,272 84

This is a claimed stock capitalization of \$20,508.21 per mile of road. In aggregate amount it is an increase of \$66,371,336.75 or 22.99 per cent upon the report of the previous year. Per mile of road it is a decrease of \$4,351.80 or 17.50 per cent, the result of largely decreased capitalization upon the increased mileage owned.

The whole number of stock holders listed was 13,387 of whom 1,010 were citizens of Michigan, the latter holding \$9,130,000 only of shares issued, or 2.58 per cent of the whole.

#### INDEBTEDNESS.

The corporate indebtedness of our railroad companies is also largely increased from the last report, and figures at a total of \$421,703,577.20 classified as follows:

Funded debt	Per cent. \$393.363.187.01—93.28
Unfunded debt	28,340,390.19— 6.72
	\$421 703 577 20

The above is an increase over the preceding year for the

	\$97,565,827.09—32.98 
Total debt	\$99.099.540.48—30.72

Per mile of road owned there was \$33,757.00, an increase of \$8,444.87, or 33.25 per cent from the figures of the preceding year. This unusual increase of indebtedness results very largely from the reorganization of the Wabash which alone contributes \$78,000,000.00 of the entire amount. Reference may be had to the following statement which exhibits in detail the increase and decrease of the debt accounts during the last fiscal year of the several companies included in this report.

### STATEMENT Showing changes in Indebtedness of Michigon Railroads, 1889.

Companies.	Increase.	Decrease.
Commercial Roads:		
Battle Creek & Sturges (new)	\$500,000 00 67,467 99	
Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan	1,132,971 89	<b>\$9</b> 8,783 8
Cincinaati, Jackson & Mackinaw Cincinnati, Jackson & Mackinaw (Beceiver) Cincinnati, Saginaw & Mackinaw Cincinnati, Wabash & Michigan	116,171 40 836,886 23	788,767 5
Cincinnati, Saginaw & Mackinaw	836,886 23 16,554 44	
Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwaukee. Detroit, Lansing & Northern	584,541 12	6,598 6
Detroit, Lansing & Northern	48,189 <b>86</b> 8,921 29	
Duluth, South Shore & Atlantic	1,922,482 19	47,000 0
Flint & Pere Marquette. Port Huron & Northwestern	8,489,527 30	2,742,405 0
Frankfort & South Bastern (new)	222,000 00 588,074 82	
Grand Rapids & Indiana Hancock & Calumet. Lake Shore & Michigan Southern.		18,881 1 2,217,737 2
Lowell & Hastings	121,868 02 567,083 33	
Manistique	80,276 79 5,782 87	
Michigan Air Line Railway	980,900 42	37,884 2
Michigan Central Canada Southern Bridge (M. C. Prop.) Jackson, Lansing & Saginaw (M. C. Prop.)		60,000 0
Kalamasoo & South Haven (M. C. Prop.) Miohigan, Midland & Canada (M. C. Prop.) Toledo, Canada Southern & Detroit (M. C. Prop.) Milwaukee, L. S. & Western	25,921 29	10,000 0 2,817 0
•		
Milwankee & Northern Mineral Bange	904,960 01 88,824 23	29,850 5
Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana	OC-CORE EO	11,951 7
Pontiac, Oxford & Northern. Saginaw, Tuscola & Huron. Saginaw Valley & St. Louis. Toledo, Ann Arbor & North Michigan.	38,061 14 0,489 01	1,945,488 5
Toledo, Saginaw & Muskegon Toledo & South Haven Walnah	49,821 21 20,601 13 78,000,000 00	
Wabash Wisoonsin Central	20,459,848 76	
Ore and Forest Roads: Bear Lake & Eastern		2.720 9
Buckley & Douglas	407,249 60	2,780 9 110,967 1
Hobart & Manistee River	400 00	6,845 7
Manistee & Luther North Branch & Sauble River	16,738 91	30,480 7

#### STOCK AND DEBT.

The total stock and debt reported at the close of the last fiscal year was \$744,014,225.72, being \$59,535.55 per mile of road owned and an increase of \$131,832,252.91, 21.53 per cent and \$9,357.64, 18.64 per cent respectively. This very heavy and largely increased capitalization of our roads will hardly fail to attract unfavorable attention, and ought to influence legislation for the prevention of fictitious values in the capital account of railroad corporations hereafter.

#### COST.

The total cost of roads and equipments reported to this office at the close of the year 1889 was \$690,006,646.56 the same being an increase of \$140,724,356.29 or 25.62 per cent on the figures of the previous report. Per mile of road owned it was \$55,207.63 being \$8,040.83 or 17.05 per cent in excess of similar value for 1889. From this showing it appears that the ratio of cost to the total stock and debt has slightly increased during the year under report, the former being 93.28 per cent of the latter, leaving the excess of stock and debt over cost 6.72 per cent as against 10.28 the last year, a decrease of 3.56 per cent. The proportion of cost for Michigan is \$265,720,770.83 an increase of \$17,303,391, 6.86 per cent from the last report. The Michigan proportion of cost is now 38.51 per cent of the whole. The total excess of stock and debt over cost of the properties as shown by the last report was \$54,007,579.16 and \$4,327.22 per mile of road owned. The usual statement showing excess of stock and debt over cost for each year since the organization of the department is appended. The figures for 1889 show a falling off of \$8,892,103.38 the result of reorganization rather than of actual increase of property values reported by the companies.

#### COMPARATIVE STATEMENT.

#### Stock and Debt with Cost.

Year.	Excess of Stock and Debt over Cost.
1873	<b>\$14</b> ,605,531 11
1874	13,241,471 81
1875	17,563,469 80
1876	19,556,513 93
1877	20,102,224 28
1878	18,435,558 69
1879	17,091,975 90
1880	16,563,711 82
1881	20,150,073 00
1882	28,322,983 60
1883	41,768,609 09
1884	47,397,518 61
1885	50,543,044 88
1886	50,294,846 20
1887	48,982,240 38
1888	62,899,682 54
1889	54,007,579 16

#### FINANCES.

#### General Exhibit of Receipts and Disbursements.

The total revenue realized from the operation of Michigan railroads during the year 1889 was \$96,423,071.62. For the previous year it was \$80,667,765.03, the outcome being the sum of \$15,755,306.59 or 19.53 per cent in favor of the year under report.

The operating expenses for the same period were \$64,613,791.98, leaving a net income for the year on traffic account of \$31,809,279.64, which was in excess of net income the preceding year \$6,136,631.28, or 23.90 per cent.

From the net surplus of traffic receipts over operating expenses and taxes were paid the fixed charges, rentals and dividends as follows:

Interest on the funded debt	.30 1,050,312 07 .14 4,166,871 15
Total disbursements  Net deficit of receipts to disbursements	<b>\$</b> 31,884,942 20
for the year	<b>75,662</b> 56

which was paid from the balances on hand in the income account at the close of the preceding year. The following formulated from the balance sheets of the several corporations, covers all sources of revenue and classes of expenditure, and presents in concise form their financial transactions and condition for the last fiscal year.

#### GENERAL BALANCE SHEET.

#### THE RAILROAD COMPANIES OF MICHIGAN ON GENERAL ACCOUNT.

#### Dr.

To Balance forward from 1888	<b>\$20,494,4</b> 95	29
Revenue from operation, 1889	96,423,071	62
Income from sources other than operation—net Balance of credit items from accounts of reorgan-	68,285	
ized or transferred companies		44
	<b>\$121,362,086</b>	17
Cr.		
By Operating expenses and taxes, 1889	\$64,613,791	98
Interest on funded debt	18,571,574	66
Interest on floating debt	1,050,312	07
Rentals		
Dividends	8,096,184	<b>32</b>
Balance forward to 1890	24,853,351	99
	<b>\$121,352,086</b>	17

The credit balance forward carries in the income account an increase of \$4,358,856.70 from the figures of the previous year.

#### ANALYSIS OF EARNINGS AND EXPENSES.

The total traffic earnings for 1889 footed at the sum of \$87,219,726.28 an increase from the previous year of \$7,118,069.95 or 8.78 per cent. For the same period the total operating expenses including taxes were \$64,614,854,95 being an increase over 1888 of 17.47 per cent, the net increase of per cent of expenses to earnings being 8.69 per cent.

The traffic earnings were classified between passengers and freights as

+011	UMM:
KUL	UWB.

Passengers	31.82% 68.18%	\$27,754,110 15 59,465,616 13
	·	<b>\$</b> 87,219,726 28

The above is an increase of receipts from passenger traffic the previous year of \$2,160,430.15 and from freight traffic of \$5,751,800.47. The ratio of passenger earnings to freight is .46 less.

The receipts of the passenger department accrued as follows:

From	ticket sales84.61% express and baggage5.98% mails8.98% other sources43%	_ 1,660,429 98 _ 2,491,798 00
		\$27,753,624 10
The	revenue of the freight department was derived	
From	transportation of freights 99.44% other sources	<b>\$59,132,921</b> 86 332,694 27
		<b>\$</b> 59,465,616 <b>13</b>
•	COMPARISON OF CLASSIFIED EARNINGS 1888 AND 18	89.

# COMPARISON OF CLASSIFIED EARNINGS 1888 AND 1889. Transportation of Passengers.

<b>18891888</b>	84.61% 85.35%		\$23,482,384 21,849,112	
Decrease	.74%	Increase	<b>\$</b> 1,633,271	28
Express and B	aggage.			
1889	5.98% 6.30%		\$1,660,429 1,612,028	98 30

1888	6.30%		1,612,028 30
Decrease	.32%	Increase	<b>\$48,401</b> 68
Mails.			
1889	8.98%		<b>\$2,491,798</b> 00
1888	8.17%		2,096,617 09
Increase	.81%	Increase	\$401,180 91

#### Other Sources.

1889	.43%		\$119,011 93
1888	.16%		41,921 70
Increase	.27%	Increase	<b>\$77,079 30</b>

#### TRANSPORTATION OF FREIGHT.

#### Freights.

	•			
1889 1888			\$59,132,921 53,595,783	
Decrease	.34%	Increase	<b>\$</b> 5,53 <b>7</b> ,138	17
	Other Sources.			
1889 *	56 of		<b>2</b> 332 604	27

1889	.56%		\$332,694 27
1888	.22%		118,031 97
Increase	.34%	Increase	<b>\$</b> 214,662 <b>2</b> 8

The traffic earnings average per mile of road \$5,924.22 an increase of \$114,58 and 1.97 per cent over results of previous year.

Per train mile the traffic earned as follows:

	1889.	1888.		
Passenger trains	<b>\$</b> 1.04.04	<b>\$</b> 1.10	Decrease	<b>\$</b> 0.05.96
Freight trains	1.33.02		Increase	0.20.32
All trains earning revenue		1.11.7	Increase	0.10.49

#### Operating Expenses.

Operating expenses and taxes for the year under report amounted to the sum of \$64,614,854.95, distributed between the several classes of expenditures, as follows:

Maintenance of way and buildings  Maintenance of rolling stock  Conducting transportation  General expenses and taxes	10,321,906 <b>23</b> 32,109,857 56
	<b>\$</b> 64,614,854 95

This is an increase upon the outlay for the previous year of \$9,612,994.10 or 17.47 per cent. But with increased train mileage of 12.70 and unusual activity in the repair shops, and road department the increase indicates no lack of economy on the part of the managers in charge.

Statement No. 8 appended to the report is a full exhibit of expenditures of the different corporations for the year 1889 and from it I have prepared a comparative statement in detail with expenses for the previous year which is submitted as follows:

#### COMPARATIVE CLASSIFIED EXPENSES 1888 AND 1889.

#### Maintenance of Way and Buildings.

		Per Cent.			
1889		20.62		<b>\$</b> 13, <b>325,21</b> 0	77
1888		21.10		11,604,422	
	Decrease	.48	Increase	\$1,720,788	.26—14.82%
	Main	tenance	of Rolling St	ock.	1
1889		15.99		<b>\$</b> 10,321,906	23
				8,039,225	
	Increase	. 1.37	Increase	<b>\$2,282,680</b>	8828.39%
	Cond	ucting T	ransportation.		
1889		49.69		<b>\$</b> 32,109,857	56
				28,144,779	04
	Decrease	8.52	Increase	<b>\$</b> 3,965,078	52—14.08%
	Gener	al Expen	ses and Taxes	) <b>.</b>	
1889		13.70		\$8,859,880	<b>3</b> 9
		13.11		7,213,433	95
	Incréase	.59	Increase	<b>\$</b> 1,6 <b>44</b> , <b>44</b> 6	44—22.79%

Per mile of road operated the expenses were \$4,388.01 being in excess of amount for the previous year; per train mile they figured at \$0,93.94, \$0,07.14 more than for 1888, while the per cent of expenses to earnings was 74.08 as against 68.90 for the previous report, an increase of 5.18 per cent.

#### OPERATIVE RECEIPTS IN ADDITION TO TRAFFIC EARNINGS.

Income derived from other sources than traffic operations was reported at the sum of \$926,865.10 being a decrease of \$328,151.03 or 26.14 per cent from like report for the previous year.

#### INCOME FROM SOURCES OTHER THAN OPERATING.

Receipts from dividends on stock in treasury belonging to the companies, premiums on bonds, leases, sales of property and on all other accounts other than operating were reported at \$1,039,887.96 making the gross income of our railroad corporations for the year under report \$89,186,479.34. Per mile of road operated this was \$6,057.78; per train mile \$1,249.

Computed upon a pro rata mileage the Michigan proportion on account of gross income and expense was as follows:

Gross income (38.12%)	<b>\$34,001,787</b> 15
Total expenses (35.08%)	22,665,308 82

Total net earnings for Michigan \$11,336,448 33

The total cost of the railroads in this State as heretofore shown in this report is \$265,720,770.83 figured at the rate of \$55,207.63 per mile. The net gross earnings per mile of road as above shown was \$1,669.77 which would leave but 3.02 per cent of gross receipts for payment of fixed charges and dividends upon the capital invested, if computed for all the companies in the State equally. For purpose of convenient comparison I subjoin statement of earnings and expenses for five years commencing with 1885.

#### Statement.

Earnings and Expenses.	1885.		1886.		1887.		1888.	·	1889.	
Total earnings Total earnings per mile of	\$76,952,864	80	\$82,891,085	47	\$81,556,252	85	\$79,778,407	40	\$87,219,726	28
road	5,797	00	6,047	66	6,574	95	5,809	64	5,924	22
Total earnings per train mile	1	24.9	1	84.42	1	40.48	1	11.7	1	22.19
Total expenses	54,133,685	01	54,216,624	19	52,389,984	30	55,001,860	85	64,614,854	95
Total expenses per mile of road.	4,660	72	3,968	<b>3</b> 2	4,216	84	4,002	88	4,388	01
Total expenses per train		87.9		87.97		90.09		86.08		93.94
Percentage of expenses to earnings	70	35	65	45	64	28	68	90	74	08

#### FIXED CHARGES.

INTEREST.		
The charges on interest account for the last fiscal follows:	year figure	ed as
On the funded debt		
	<b>\$</b> 19,621,886	73
Per mile of road owned Per train mile Per cent of earnings	0	17 27.49 22.49
INTEREST AND RENTALS.		
Total Per mile of road operated Per train mile Per cent of earnings	1,332 0	73 77 27.40 36
OPERATING EXPENSES, INTEREST AND RENT.	ALS.	
Total Per mile of road operated Per train mile Per cent of earnings	1	68 78 30.33 96.58

Compared with the previous year the above figures show:

Total	Increase	<b>\$10,561,423</b>	67-14.34%
Per mile of road			99 6.80
Per train mile	"	0	14.08
Per cent of earnings	"	4	23

#### DEFICIT OF EARNINGS TO EXPENSES.

But two companies failed during the year under report to make sufficient earnings to cover expenses of operation.

The Ontonagon and Brule River, deficit	\$5,3 <b>62</b> 1,015	01 34
Total	\$6,377	

The first of the above roads has become a portion of the Milwaukee & Northern and the second is a forest road used for logging purposes only, so that practically there are no properties of the Michigan system that are not earning their expenses.

#### DEFICITS IN GENERAL ACCOUNT.

Thirteen companies are reported as carrying forward debit balances at the close of the year, two less than shown in the previous report. Such debits aggregate the sum of \$2,165,983.15 as against \$4,861,654.71 a decrease of \$2,695,671.56 or 55.45 per cent from the last year. The following statement gives details under this head.

#### Statement of Debt Balances in General Account 1889.

Companies.	Amount.
incinnati, Jackson & Mackinaw	\$14,149
uluth, South Shore & Atlantic	2.814
rand Bapida & Indiana	204,179
anistee & Northeastern inneapolis, St. Paul & Sault St. Marie.	29,311
inneapolis, St. Paul & Sault St. Marie	1,175,567
ntonagon & Brule River	20,361
aginaw, Tuscola & Huron	46,529
aginaw Valley & St, Louis	100,627
oledo, Saginaw & Muskegon	
oledo & South Haven	
abash	288,474
ieconsin Central	189,116
obart & Manistee River	15,638
•	
Rotal for thirteen companies	\$2,165,983

#### DIVIDENDS.

Our list of dividend paying companies is but little changed from last year. The aggregate amount returned to share holders was \$8,096,184.32 which was in excess of the previous report \$267,072.75 or 3.41 per cent. A detailed statement showing companies paying dividends with stock paid in, and amount and rate per cent of dividends is subjoined.

#### Statement of Dividend, 1889.

Companies.	Capital Stock paid in,	Amount of Dividend.	Per Cent of Dividend.
Chicago, Detroit & C. G. T. Junction Chicago & Northwestern Chicago & West Michigan Duluth, South Shore & Atlantic Flint & Pere Marquette Lake Shore & Michigan Southern Mason & Oceana Michigan Central Milwankee Lake Shore & Western	\$1,095,000 00 74,815,330 58 6,795,900 00 2,278,456 00 6,342,000 00 50,000,000 00 150,000 00 18,788,304 00 7,000,000 00	\$109,500 00 8,444,504 00 128,004 00 196,707 86 380,520 00 2,473,325 00 7,413 76 986,910 20 490,000 00	4 % on common. 6 % on common. 7 % on preferred. 2 % on ommon. 6 % on preferred. 5 % on common. 5 % on common. 5 % on common. 7 % on preferred, 6 % on common.
Total for nine companies	\$168,214,780 58	\$8,096,18f 32	

The above statement shows an average dividend of 4.81 per cent upon the stock upon which the same was declared, an increase of .34 per cent from the previous year. The stock upon which dividends were paid was 47.25 per cent of the total amount paid in the residue \$187,734,492.31 making no returns to its owners whatever.

#### DIVIDENDS AND INTEREST.

The dividends and interest upon the indebtedness together aggregated the sum of \$26,667,758.98 which for roads owned was \$2,136.45 per mile and 3.87 upon the reported cost of the properties.

#### TRAFFIC.

The volume of traffic for both passenger and freight was largely increased over the previous year, but the average haul being something less.

#### TRAIN MILEAGE.

The mileage of all trains earning revenue was considerably in excess of movements for 1888 as appears from the following comparative statement.

Passenger trains, miles run Freight trains, miles run	1888.	1889.	Increase.
	23,285,996	26,675,694	3,389,698
	40,044,160	44,702,514	4,658,354
Total increase			1,268,656

Being an increase of passenger train mileage of 10.26 per cent and of freight train mileage of 11.63 per cent and for all trains earning revenue 8,048,052 miles or 12.70 per cent.

#### PASSENGER BUSINESS.

The whole number of passengers carried during the year was 31,136,050, as against 27,436,106 for the previous year, an increase of 3,699,944, 13.48 per cent made up in classes as follows:

Through passengers Local passengers		673,253 30,46 <b>2,7</b> 97
Total	-	31,136,050

The average ride was 30.63 miles, being less by 6.47 miles than the previous year. The average fare paid by each passenger was \$0 75.41, 04.46 cents decrease from last report. The total number of passengers carried one mile was 1,139,527,824, an increase of 121,509,716, and 11.93 per cent from 1888. I subjoin the following statement as showing in detail the passenger business and rates of ten of the principal corporations doing business in the State:

Statement of Average Passenger Rates, 1889,

Companies.	Passengers Carried.	Average Through Rate.	Average Local Rate,	Average Rate for all,
Chicago & Grand Trunk Chicago & Northwestern Detroit, Grand Haven & Milwaukee Flint & Pere Marquette Grand Rapids & Indiana Lake Shore & Michigan Southern Milwaukee, Lake Shore & Western Duluth, South Shore & Atlantic Detroit, Lansing & Northern	834,347	\$0 01.49	\$0 02.18	\$0 01.72
	11,897,183	02.41	02.23	02.24
	566,162	02.81	02.89	02.38
	1,161,879	02.870	02.497	02.49
	1,074,392	02.535	02.409	02.41
	4,413,192	02.168	02.338	02.28
	8,158,873	01.98	02.42	02.81
	547,275	02.546	02.673	02.67
	351,962	03.40	03	08.30
	695,853	02.20	02.55	02.50

# FREIGHTS.

The total tons of freight moved during the year under report was 54,569,264 being an increase upon the traffic of the preceding year of 8,834,091 tons and 19.32 per cent. The movements were classed as follows:

Per Cent.  Through freight—15.14  Local "—84.86	Tons. 8,266,149 46,303,115
Total tonnage	54,569,264
The total freight mileage foots as follows:	
Per Cent.	Miles.
Through freight—26.08	2,032,104,151
Local " —73.92	5,758,528,05 <b>2</b>
Total, or tons moved one mile	7,790,632,203

This was an increase of 975,844,930 tons or 14.32 per cent upon the freight traffic of the preceding year.

Analyzed and compared with similar details for previous periods we have the following:

Average ton haul, miles	1888. 150.31	1889. 142.76	Increase. Decrease. 7.55
Average amount for each haul	<b>\$</b> 1 18.4	<b>\$</b> 1 <b>0</b> 8	<b>\$</b> 0 10.4
Average rate per ton per mile	0 00.794	0 00.754	0 00.040

Below will be found a statement giving in detail the tonnage, movements and average rate per ton per mile realized by ten of the more important lines in this State.

Statement of Tonnage and Average Freight Rates 1889.

•				
Companies.	Total Tonnage.	Rate per ton per mile Local,	Rate per ton per mile Through,	Average Entes for all,
Chicago & Grand Trunk. Chicago & Northwestern Detroit, Grand Haven & Milwaukee. Detroit, Lansing & Northern. Duluth, South Shore & Atlantic Flint & Pere Marquette Grand Rapids & Indiana. Lake Shore & Michigan Southern. Michigan Central Milwaukee, Lake Shore & Western.	2,055,457 1,596,188 1,786,574 10,020,599 6,299,948	00.91 01.80 01.619 01.30 01.201 09.992 00.689	\$0 00.875 00.52 00.45 01.010 01.60 00.607 00.972 00.601 00.559 00.737	\$0 00.945 00.60 00.130- 91.507 01.59 00.991 00.644 00.726- 01.057

In the absence of complaints to the contrary, the conclusion is a just one that the freight rates charged the patrons of Michigan railroads are satisfactory, and maintained without discrimination or favor, in accordance with the requirements of our law. With this conviction, and in view of the very low average rate now collected for freight transportation, it would seem that additional legislation upon the subject is not required in the public interest.

#### COMMODITIES MOVED.

For classification of tonnage and commodities moved your attention is respectfully directed to Tabular statement No. 12 accompanying this report where will be found full details of the freight traffic upon Michigan roads during the year. It also shows the aggregate and per cent of each commodity carried and the freight forwarded from Michigan stations during the same period. The subjoined statement gives a comparative exhibit of the percentages of the different articles included in the table during the period of five years commencing with 1885. The variation from last year for the most part is hardly appreciable. Forest products show a slight increase from the previous report, while the movement of ores exhibits considerable diminution. Agricultural products generally and coal likewise, are in less tonnage than for the preceding year.

# Statement.

Classes of Freight Carried.		Per Cent,	Per Cent,	Per Cent,	Per Cent.	From	1887.
Ozaces of Pregno Carriou.	1885.	1886.	1887.	1888.	1889.	of	Per Cont of Decre'se
1. Grain 2. Flour 3. Provisions (beef, pork, lard, etc.)	15.21 3.35 2.31 4.22	12.63 2.22 2.97 3.93	9.35 2.63 2.55 3.17	9.33 2.51 2.15 3.18	8.58 2.51 2.44 3.20	.29 .17	0.75
5. Other agricultural products 6. Lumber and forest products 7. Coal 8. Plaster 9. Salt	18.78 14.98	5.06 19.34 13.77 .67 1.30	2.71 22.87 12.84 .69 1.46	5.49 20.07 18.74 .82 1.18	3.21 22.04 10.90 0.97 1.27	1.97 .15 .09	2.28
10. Petrolenm and Charcoal 11. Railroad iron, iron and steel rails 12. Pig and bloom iron 13. Other iron and castings 14. Oree	.68 1.07	1.29 .82 1.12 1.97 12.41	1.23 1.34 1.25 1.87 14.73	1.34 .48 1.09 1.72 15.05	1.48 .49 1.30 1.94 9.30	.14 .01 .21	0.2 <b>2</b> 5.75
15. Stone and brick  16. Manufactures—articles shipped from point of production  17. Merchandise and other articles not enumerated	0.45	2.68 5.07	3.17 3.76	8.75 4.24	4.62 3.45	.87	.29
above	17.09	14.86	14.38	13.90	12.30		1.60

# MICHIGAN TONNAGE.

The movement of freight from Michigan stations is largely in excess of like tonnage during the previous year and is returned at 21,106,826 tons which was 39.51 per cent of the total tonnage and an increase of 3,059,650 tons or 16.95 per cent.

I continue the statement showing number of tons of freight moved one mile during the sixteen years since 1874 including that under report, and the average rate per ton per mile upon each year's movements.

# STATEMENT OF TONNAGE AND RATE PER MILE SINCE 1878.

	Tons Carried One Mile.	Rate per Mile.
1874	1,932,955,796	<b>\$</b> 0 01.37
1875	1,954,003,452	01.20
1876	2,326,961,690	00.98
1877	2,292,655,424	01.03
1878	2,858,931,229	01.05
1879	3,598,676,485	00.92
1880	4,789,420,773	00.86
1881	5,747,847,621	00.92
1882	5,781,580,167	00.97
1883	6,235,081,222	00.99
1884	6,164,447,358	00.90
1885	6,415,952,716	00.82
1886	6,475,690,954	00.89
1887	6,353,779,133	01.09
1888	6,814,787,273	00.79
1889	7,790,632,203	00.75

From the above it will be noticed that for 1889 the tonnage was the heaviest and the average rate the lowest in the history of the department.

# EQUIPMENT.

The estimated value of the equipments in use upon the railroads in this State is estimated at \$48,605,964 and \$3,301.59 per mile of road operated. This is an increase of \$7,883,259 and \$329.22 respectively. For the maintenance of the equipment, including, new cars and engines which in some instances are charged to maintenance account, there was expended as before stated the sum of \$10,321,906.23 or 21.23 per cent upon the estimated value of the rolling stock. Per mile of road operated it was \$701.12 and per train mile 14.45 cents. Few accidents have been reported by reason of poor and deficient rolling stock during the past year and the mechanical engineer reports it quite up to the standard of excellence generally in the past characteristic of our Michigan roads. Following is a list of the rolling stock reported at the close of the last year.

# LIST OF EQUIPMENTS, 1889.

Locomotives, all classes	3,107
Passenger cars, all classes	1,506
Baggage, mail, and express cars	623
Box freight cars	55,791
Stock cars	6,729
Platform and coal cars	27,092
Ore cars	10,505
Conductors' way cars	1,617
All other cars	
Total cars	109.139

# AUTOMATIC CAR COUPLERS.

The car coupling question is in somewhat better shape than when the last report from this office was made. On March 1, 1890, a circular of inquiry was sent to railroad managers and superintendents, and to railroad men's organizations, generally, asking if there was any good reason why all the link and pin couplers should not be withdrawn from the approved list. The effect would be to leave for use couplers only of the Master Car Builders' type. Answers were generally received from the railroad officials and from many of the employes; the large majority of both classes favored the change outlined. The result was that on the twentieth day of May, 1890, an order was issued, a copy of which will be found among my official orders in the appendix to this report.

The magnitude of the undertaking is such that it will be impossible for the roads to literally comply with the law by the time it becomes operative January 1, 1891, and it should be amended so as to extend the time within which all cars should be equipped with automatic couplers three years at least. The extent of the task imposed by the law was such as to render a compliance with its provision an impossibility within the time named. At the time the law was executed very few had any adequate idea of the immensity of the work required. The great number of different kinds of couplers proposed and the diversity of opinion among railroad men as to what type of couplers is best, delayed any attempt to comply with the law because experience has demonstrated that the adoption of several

different types of couplers however good in themselves only c.'d to the difficulty. This was shown by the experience with the seven kinds of couplers selected by my predecessor Hon. Wm. McPherson Jr. none of which proved of practical value. Had each of them been perfect of itself, the lack of uniformity would have prevented any good being gained by their adoption, yet Mr. McPherson called to his aid in making the selection, the leading practical railroad men of the State, The difficulty was, a demand for something human ingenuity had not yet

devised means to supply.

One year ago it was reported by this department that the question was as far from settement as ever; yet as the result of the action of March 1, and May 20 ult. it is hoped we see the beginning of the end of this tedious but important question, though there are yet many difficulties to be overcome which develop almost every day. The provision requiring new cars purchased or leased, and cars of modern make and size when sent to the shops for general repairs, or for repair of coupling fixtures may be very properly enforced. There is a class of cars belonging to foreign corporations which have long buffers extending both above and below the draw bars, that run to some extent on nearly all the railroads in this State, which are especially dangerous to couple unless equipped with automatic couplers, which should not be allowed to be in service in Michigan a single day longer than is absolutely necessary. The railroad companies have been especially notified that it will be unlawful to use them in this State after January 1, 1891. There may be reasons why a limited extension should be granted but the time should be as short as is consistent with the circumstances. Several of the leading roads have made commendable progress in equipping their cars with safety couplers during the last eight months, a detailed report of which will be found in the report of the Mechanical Engineer in the appendix.

# POWER BRAKES.

Power brakes are rapidly coming into use on all trunk lines of road. The law of 1889 requiring power brakes on engines has not been fully complied with, but all companies are equipping their engines as fast as possible and all new engines are built with them on. The increased speed at which freight trains are now run makes it imperative that some means

should be provided for power brakes on freight trains.

If all engines used for handling freight except yard engines were provided with an air pump there are now so many cars with the air brake attachments that sufficient number of cars can in nearly every case be found and placed at the front of the train to control it. This is now the practice on most of the trunk lines, but legislation will be found necessary to compel some of the companies to adopt this system. In the near future it should be required that companies equip all new freight cars with air brake attachments. This is now being done upon many of the leading roads, and legislation to that end should be enacted.

# SAFETY HEATERS.

Owing to the mild weather of last winter there has not been as much improvement in this respect as could be desired. No method or device has yet received the formal approval of this office though there are some

systems in use, the approval of which it might not be unreasonable to ask on the part of the companies which have adopted them. The policy of the department has been to require the more dangerous class of stoves and heaters removed, especially on trains which run at a high rate of speed and at the same time urging the companies to be satisfied with nothing short of the best. Some form of heating by steam taken from the locomotive promises to be the popular method of heating cars, but in order to determine the efficiency of the appliances for this purpose colder weather than has been experienced during the past two winters is necessary. To be safe in our Michigan climate emergency heaters should be placed in every car, to be used, when for any reason the locomotive is disabled.

# PERMANENT WAY.

Work upon the way, has been active during the year, and the tracks, buildings, bridges and other structures are reported as generally in good condition of repair.

The amount expended for maintenance of way during the period under report was \$13,325,210.77 which was \$905.08 per mile of track operated, and \$0.18.67 for each train mile run being in excess of like expenditures for preceding year of \$158.04 and \$0.00.35 respectively.

#### BUILDINGS.

As a rule the buildings first erected by our railroad companies for station use were of a comparatively cheap and temporary character. No general renewal of these structures has as yet been commenced, and as a consequence, many of them have long since become illsuited or entirely inadequate to the purpose for which designed, and ought, both for the convenience of the railroad service, and in the interest of the public, to be replaced with buildings of modern style and arrangement. But whenever one of these ancient shells become no longer habitable, I am pleased to say that the companies in most instances in rebuilding, evince a good taste and liberality that is alike a credit to themselves and an ornament to the town for which the new structures are provided. During the year the Michigan Central Railroad Company has completed commodious and elegant passenger stations at Bay City and North Saginaw and have laid the foundations for another at Niles which has been greatly needed for many The Grand Rapids and Indiana Railroad Company has erected a large and handsome fireproof passenger car shed for the use of its own and the several companies using the passenger depot at Grand Rapids. It is understood that the old wooden building so long in use at that point for waiting room and offices will in the near future give way to a substantial and elegant edifice of modern design, which when completed, in connection with the shed erected this season, will furnish comfort and convenience to the public not excelled in the State.

The Toledo, Ann Arbor and North Michigan Company has also completed and occupied during the year a very handsome and well arranged passenger house at Ann Arbor, and thus filled a long felt want at the University town.

At Detroit, the Fort Street Union Depot Company has been making substantial progress toward the erection of its new passenger station. The ground for its site has been secured, the right of way for the

approaches been provided for, and plans for its buildings, which are to be in every way models of good architecture and convenience as well as of massive proportions have been adopted, and the work will be pushed to

the earliest possible completion.

In this connection it may not be out of place to suggest that the passenger stations of the Central and Grand Trunk Companies at Lansing, although recently treated to fresh coats of paint and other repairs, are still old, small and uncomfortable, and should if possible be replaced with structures suitable and sufficient to the needs of the Capital City, and the large traffic which it furnishes these roads, and that will compare favorably with its other public buildings as well.

# TRACK SECTIONS.

The track sections number 1,210 of an average length of 5.58 miles worked by gangs of 4.21 men to each section. The small number of derailments and other track accidents reported best prove the efficiency of the track force.

# TRACK RENEWALS.

#### RAILS.

59,981 tons of new rail relaying 775.95 miles were placed in the tracks during the year under report being about 11.50 per cent of the entire trackage of the State.

#### TIES.

The entire number of ties expended during 1889 was 4,792,495 of which 2,384,036, or 49.75 per cent were laid in Michigan.

# TRESTLES.

More than one and one-sixth of a mile of trestle has permanently disappeared from sight and been replaced with earthwork during the past year. No better economy can be practiced than liberal expenditures each year for the substitution of earth in place of trestle until these objectionable and inferior structures are eliminated from our railroad properties.

# CULVERTS.

The total number of timber culverts removed during the year was 338. Of these 99 were replaced with iron pipe, 56 with inch sewer pipe, and 183 were rebuilt of timber. I have to renew the suggestion made in my last report that in view of the fact that pipe of sufficiently large dimensions can now be had at a number of points in the State, available for nearly all requirements, the renewal of culverts with timber is of doubtful economy.

# BRIDGES.

There were 304,129 lineal feet or about 57 miles of bridges reported upon the railroads of this State at the close of the last year, a slight decrease from the previous report. The average length of the bridges was '99 feet and there was one bridge to each 2.20 miles of track owned.

Following is a statement showing the character and extent of the bridge system covered by this report.

# Descriptive List of Railroad Bridges in Michigan.

Character and Material of Bridge.	Number.	Length— Feet.
Wood Stone or Iron Combination Tresties Draw bridges	560 161 33 2,283 27	51,452 19,398 8,878 220,745 3,361
Totals	8,064	304,129

There structures have been frequently inspected under the supervision of this department and I have at all times been seconded by the management of the roads in my desire to maintain them in a condition of effective safety. Our efforts in that direction have been successful and no bridge accident has occurred upon the railroads of the State during the year. A record that speaks well for the care and watchfulness of the engineers and other officials in charge, and which doubtless in view of the terrible disasters resulting from weak railroad bridges in neighboring States within a recent period, will be appreciated by our traveling public.

# NEW BRIDGES.

The foregoing list includes 82 new bridges erected during the year. 9,501 feet in lineal length and classified as follows:

Wood, number         47           Iron or Stone, number         12           Combination         2           Unclassified         27	; feet in length	1,860
89	<del></del>	9.501

As a rule the new bridge structures are of a far more permanent and substantial character than the old, and their construction is not only an important factor in connection with safe and efficient operation but is in the interest of true economy as well. Complete descriptive lists of all bridges, exhibiting their character and condition continue to be required in the office immediately after each spring inspection by the officials in charge, and have proven of great assistance in our supervision of this important class of structures.

# CATTLE GUARDS.

Under the provisions of Act No. 165, laws of 1889, upon the application of J. D. Hawks, Chief Engineer of the Michigan Central Railroad Company, the National cattle guard has been approved for use in this State. This guard is made of three steel bars of two different widths alternated, set edgewise and securly fastened together in sections and then spiked to the ties. After its approval it was demonstrated that in at least one case

horses went over it with impunity. But after a careful investigation the stock was considered as unruly. The advantages of the guard were so manifestly in the interest of general safety, that it was believed that it was wise to permit its use even if in exceptional cases stock did cross it, and to treat such cases precisely as though stock had jumped over, or broken down a legal fence. As no pit is needed for this guard it avoids the danger of supports breaking down and striking stock which had fallen into them, being struck by the engine, and also the wrecking of trains by a derailed wheel dropping into them and the danger of wrecking a train by a derailed wheel dropping into them. All things considered, therefore, it is still deemed wise to permit and encourage their use in lieu of the pit guard heretofore in use. There are other kinds of surface guards which might properly be placed in the approved list.

# CROSSINGS.

#### RAILROAD.

With the increased mileage of our roads these exposed points continue to increase and but for the improved appliances now being adopted for their protection against danger from collisions of the trains upon opposite roads would be a constant menace to the safety of the travelling public and company employés. The number of these crossings reported at the close of the last year was 331, which probably should have been 332, or 166 crossings common to two roads each reporting the same. Of these 150, were crossings at grade and 32 over and under the tracks of the crosswise roads. In the approval of maps of new roads involving the crossings of other tracks already in operation the rule of the statute requiring over or under crossings has been insisted upon when practicable without great hardship for the new road. But in a comparatively level country like Michigan where railroad construction seeks alluvial districts as far as possible it does not frequently happen that an overhead crossing can be effected without too great expense to the new company or the impairment of depot facilities at junction points.

### INTERLOCKING SWITCHES.

There are now sixty-five interlocking switches in operation and five more under process of construction at railroad crossings in this State. They are daily growing in favor among railroad men of all classes. They expedite the movement of trains, save much expense from frequent stoppages and at times enable heavier trains to be moved because they are not required to be brought to a full stop at a certain distance from the crossing of some other road. They also provide entire immunity from collisions at the intersection of one road by another. It is now the practice to require all new crossings at grade to be protected by an interlocking switch and signal device. Several existing crossings have been thus protected within the last year with the free assent of one or both the companies in interest.

A system of daily inspection has been provided for, and results recorded by some employés of the companies in interest designated for that duty and a monthly report to this office required. In addition to this requirement frequent inspections have been made at irregular intervals by the mechan-

ical engineer of this department.

The result of this system of inspection has fully justified the wisdom of it and has undoubtedly prevented many accidents that otherwise might have occurred. While these devices furnish almost absolute immunity from collision with trains on other roads, they do not furnish anything like absolute protection against derailment except that they be left in perfect order and are properly operated. If proper provision is made for keeping a derailed train on the ties or turned on to an unobstructed side track there is very little danger of any serious results from a derailment unless trains are running at a very high rate of speed. Too much care cannot be exercised in putting them in, or in their operation afterwards. While trains are permitted to cross them without first being brought to a full stop, their speed should always be reduced to a moderate rate while passing the crossing.

Crossing diamonds are now being manufactured that give the advantages of a continuous rail at the crossing of one railroad by another thus saving the wear and tear of cars and crossing frogs and largely increased expense incidental to the old plan. These improved appliances should be required upon all heavy traffic roads having frequent crossings and are especially desirable when interlocking switches are in use, and are passed at a much higher rate of speed than when trains

are first brought to a full stop.

# SPLIT OR SAFETY SWITCHES.

These switches are a recent invention and reduce the danger of derailment at least one half, besides furnishing one solid rail at all times and a much smoother track. These switches should be required at all points where a side track leaves the main line and especially where trains are to pass at full speed. They are no more expensive than the common switch and are now generally adopted in new construction.

# SIGNALS.

There are so many opinions in regard to signals at switches and other points that anything said about them is almost certain to interfere with some one's pet theory, but it is safe to say that the following general rules should be observed. Red is almost universally used to indicate danger and to stop, and it should be used for no other purpose whatever. All signals should be positive and a switch signal should show a different shape as well as color when turned for the main track or siding as the case may be. There are various opinions as to whether white or green should be used to denote safety and the practice is not uniform, though on the majority of roads white denotes safety, and green caution. There are some who advocate a compound light. But this department although authorized to do so has never taken the responsibility of presenting a uniform system of signals. Owing to the variety of practices of the different companies whose roads are operated in other states as well as this the task is one very few men would be willing to undertake after realizing the difficulties involved.

#### BLOCK SIGNALS.

The increased number of trains now run on the main trunk lines and the incressed speed at which they are moved has caused a demand for some means of showing how far in advance the preceding trains may be so that an engineer need not reduce his speed and lose time and incur the danger of being run into by the train following, nor of overtaking the train which is preceding him. Some of the companies have adopted time signals at stations showing at what time the last train passed but on some of the roads it frequently happens that two or three trains are between two stations at the same time. There has been invented by Mr. Fontaine of Toledo a very ingenious device for the purpose of indicating the interval between train movements, which is now being tested by the Michigan Central Railroad Company. It is a clock work device which sets by the side of the track showing on a plain white face a black hand similar to that of a clock which is so arranged that a train passing it setsthe hand at zero; the clock work then runs for fifteen minutes unless a second train comes along in less time and again sets it to zero. An engineer approaching can see by the hand just how long since a train passed or will know that it has been gone fifteen minutes or more. It is yet too early to certainly state whether this device will prove all right or not but in case it proves to be what its inventor claims for it, it can on busy roads be used for mile posts and on curves to great advantage. In case of an accident to a train requiring it to stop, a brakeman may go back, and when called in, set the signal to zero or danger thus warning the engineer of the train following; but there is no means by which the signal can be set to safety by evil disposed or careless persons when it should be at danger.

# HIGHWAY AND STREET CROSSINGS.

The number of these exposed points has increased 618 since our last report was issued, being now 6,832; of these 6,630 were at grade and 202 over or under the public thoroughfares; 349 only were protected by gates, flagmen and signals, and the wonder is that there were not more, rather than less, casualties occuring at these fruitful places of danger. It is not difficult to provide protection for this class of crossings in cities and towns contiguous to stations, but in the country where some of the most dangerous are located, being remote and difficult of supervision, it is a serious question how the peril incident to them is to be obviated, except by separation of grade, to legislation for which purpose I allude under another head of this report.

# RESIDENCE CROSSINGS.

The law of 1889 providing for cattle guards and an unobstructed passage across the track of any railroad when the track passes between any residence and the public highway, has been declared unconstitutional by our supreme court on the grounds that it was taking private property without providing for compensation. It seems unfortunate that the court felt compelled to find thus, as it inflicts a great hardship to parties thus situated and adds to the danger, not only of the person crossing with a team to be compelled to open and shut gates, but to

the train as well, on account of the greater exposure to collision from the additional time required by a team to cross the intervening track.

# FARM CROSSINGS.

The commissioner of railroads should be permitted to order cattle guards at farm crossings in certain cases. When stock in considerable numbers is to be frequently driven across the track where there are no cattle guards or connecting fences it is almost impossible for one man to prevent it from scattering and feeding upon the railroad land and obstructing the track. This is very annoying to the farmer as it endangers his stock, as well as passing trains, which are liable at any moment to come upon the animals before they can be driven away. I am led to make this recommendation on account of the adoption of a surface guard described elsewhere which does not require a pit in the track nor in any way endanger a train or train men.

#### FENCES.

But little additional fencing has been done during the past year there being completed at the close of the last year 8,970 miles leaving 2,308.11 miles, most of it in the more northern and timbered sections yet to be built. The new fence law is generally satisfactory to both farmers and the companies so far as the kind of fence is definitely prescribed by law or approved by the Commissioner of Railroads. Few complaints have been received in relation to fences and it has only required the calling the attention of the proper officer of the road to the complaint to have the cause of it removed except in one or two instances when the companies desired to abandon that portion of the road which it was desired to have fenced.

The law should provide for an earlier completion of the right of way fence of a new railroad running through improved farms. It is not uncommon for the building of a railroad to be commenced early in the summer tearing down the farmer's fences, digging up his fields in grading and the right of way fences not built until late the following season, and in some instances the fences are left down for the third season. Quite frequently farmers have sold their stock because they had no means to control and care for them. The damage amounts to a very large percentage of the receipts of the farm each year, and an amount of annoyance and inconvenience that can only be appreciated when experienced.

While the expense of fencing would be greater to the railroad company to fence before grading commenced than afterward, yet when it goes through improved fields it would not be as great an injustice to railroad companies to require the right of way fences to be built before any grading is done, as it is now, to farmers to be deprived of the use of their farms for months after the roads are completed and in full

operation.

# STATIONS AND EMPLOYES.

The whole number of stations reported was 3,058 an increase of 316 from last year. Of these 1,435 were located in Michigan being 50 in

excess of the previous report and averaging one station for each 43 miles of track. Occasional complaints of lack of depot facilities in the more sparely settled districts of the State have reached this office during the past year. These have been looked into and when they seemed to be well founded steps have been taken to have the cause of complaint removed. It is manifestly so conducive to company interests that every encouragement should be given to the development of business along the line of road that managers rarely fail to respond favorably to any reasonable request made by the patrons for better

conveniences for facilitating traffic.

The railroad companies doing business in the State had in their employ during the year 60,531 men of whom 24,105, 39 per cent, were enrolled in Michigan, an increase of 1,153 from the preceding year. The strikes which took place among train men at eastern points during the year and for a time threatened serious disturbance of railroad traffic did not extend into Michigan and the State has been happily free from disturbance among the labor classes the entire year. We have no accidents reported as the result of intemperate employés and it is believed that the personel of the force employed on Michigan railroads will compare favorably with that of any other in the country. We have had no complaints from citizens of violence or other illegal act on the part of employés and it gives me pleasure to add that a disposition has everywhere and all times been manifested so far as this office has been informed to yield a strict compliance with the laws enacted for their government by the legislature. I subjoin statement showing the classification of employés upon Michigan railroads during the year under report.

Statement showing Classification of employés on Michigan Railroads, December 31, 1889.

Classes.	Number
nggagemen	. 7
kakesmen	3,9 1,9 2,8 3,1 15,8 8,3 19,5
onductors	1,9
ngineers	2,8
iremen	3.1
aborers	15.8
hopmen	8.8
ardmen	3/2
thers	19.5
ot classified.	
	<u> </u>
Total number	60.8

#### ACCIDENTS.

The total number of accidents reported during the year 1889 was 572. For the previous year 532, an increase of 40. This was one accident for each 124,787 miles run as against one for each 119,041 miles run as by the preceding report. So that the number of accidents though numerically greater were proportionately less.

The total number of fatal accidents occurring was 178 an increase of 18 over 1888. The accidents not resulting in death, but involving

different degrees of personal injury of a serious character were reported at 394, an increase of 29 from the previous year. The following classified statement shows the number and character of persons killed and injured on Michigan railroads during the year under report.

# General Casualty Statement, 1889.

Persons.	Killed No.	Injured No.
Paseengers	8 60 110	26 282 86
Total	178	894

Of the above 117 are reported as having been clearly accidental the remaining 455 resulting from lack of caution and the persistent habit of trespassing upon track and trains. 97 trespassers or tramps were killed and injured. 28 intoxicated people and 3 suicides figure in the casuality reports for the year.

The following is a comparative analysis of the number and causes of accident for 1888 and 1889.

Casualties and Causes, 1899.

	Killed.			Injured.				1888.		
Causes.	Passen- gers.	Em- ployés,	Others,	Total,	Passen- gers.	Em- ployés.	Others,	Total,	Killed,	Injured.
Collisions. Coupling cars. Derailments. Falling from trains.	3	2 7 8 17 2		2 7 6 17	3 12 6	8 152 9 23	1 2	11 152 21 31	10 4 18	2 144 21 29
Getting on and off trains At highway crossings Miscellaneous causes Overhead obstructions	1	5 20 8	2 24 4	11 24 25 8	5	7 79 2	13 20 11	25 20 88 2	10 19 85	20 22 65
Trespassers on trains Trespassers on tracks		1	11 69	11 70		i	30	9 81	11 53	31 80
Total	8	60	110	178	26	282	86	894	160	365

# COLLISIONS.

Accidents from this cause continue to be rare, there being no increase from the previous year. During the present year 1890, however, there have been a number of accidents from this cause reported with large destruction of property the result I regret to add either of carelessness on the part of train men or imperfect appliances.

#### COUPLING CARS.

This continues to be the most prolific cause of injury to employés and the accidents continue to increase notwithstanding many of the cars are now equipped with vertical plane couplers which do not require the men to go between the cars to make a coupling. It is possible however if not probable that the difficulty of coupling the old fashioned drawbar to the improved variety may have much to do with the increase of accidents from this cause, and that when all the cars are equipped so that they readily couple automatically we may expect this class of accidents to largely disappear.

# DERAILMENTS.

Frequent accidents continue from this cause, six persons having been killed and 21 injured during the year. These accidents have resulted almost entirely from imperfect switches and it is hoped with the adoption of improved appliances to which I have alluded elsewhere, derailments will be of rare occurrence.

# HIGHWAY COLLISIONS.

Twenty-four persons were killed and 21 injured at highway and street crossings the last year, a pitiable record that the closest watchfulness and frequent inspections of exposed points and official action for their protection have not availed to prevent. Separation of grades wherever practicable seems to be the only sure remedy for this class of accidents.

# FALLING FROM TRAINS.

This class of casualties is confined largely to employes, 20 of whom were killed and 23 injured the past year. Six passengers and two others were also injured from this cause.

# FROGS.

We have to report two employes killed from this cause during the year. Investigation revealed the fact that in each instance the frogs were not blocked according to law. No accidents of this character have occurred since the passage of our law, where its humane provisions have been complied with in letter and spirit.

# GETTING OFF AND ON TRAINS.

Four passengers, five employes, and two others were killed and five passengers, six employes and fourteen others injured by reason of their own lack of caution in attempting to board or leave trains while in motion. The provisions of the statute intended to deter people from this perilous practice have proved generally a dead letter, no attempt seemingly having been made to enforce them.

#### TRESPASSERS ON TRAINS AND TRACKS.

There is no abatement of the deaths and injury resulting from this cause, 81 of the above class having been killed and 39 injured during the year. I am aware that the general sentiment prevails that the class of people usually involved in these accidents is hardly worth protection. But it should not be forgotten that this habit of trespassing upon railroad tracks is rapidly gaining upon our local population, many of whom come to a terrible death upon the same level as the most worthless tramp, and whom wise legislation judiciously enforced would very frequently save. I desire through you to commend this subject to the thoughtful consideration of our next legislature. Other States are passing laws to inhibit this practice. In Europe it is a fine for a person to cross the tracks of a railroad at its grade line at other places than at a regular station, where over or under protection is generally afforded, and it seems hardly consistent with good government that Michigan should longer permit its railroad tracks to be used as a highway for footmen.

I hereby submit a classified statement of the employés killed and

injured on Michigan roads during the year.

# Statement.

Baggagemen	3
Baggagemen Brakemen	146
Conductors	
Engineers	17
Firemen	<b>2</b> 8
Laborers	39
Shopmen	11
Yardmen	60
Unclassified	82
Total	407

Your attention is respectfully directed to tabular statement 17 A, B and C at pages 690 to 701 inclusive of this report for full details and analysis by companies of the statistics bearing upon this important topic.

# TAXATION.

The total amount realized to the State Treasury from the specific taxations of railroad companies for the fiscal year ending Dec. 31, 1889, and payable July 1, 1890 was \$757,234.94, which was an increase upon the amount of the previous year of \$4,510,640 or 6.33 per cent. Of this amount, \$219,771.78 assessed by the Auditor General upon their stock and debt in accordance with the provisions of their special charters, was paid by the following companies:

Detroit Grand Haven & Milwaukee	<b>\$</b> 25,171 40
Lake Shore & Michigan Southern	45,583 18
Michigan Central	<b>134,083</b> 20
Grand River Valley	14,934 00
· •	
Total	<b>\$219,771</b> 78

The remainder, \$537,463.16, was computed by the Commissioner of Railroads as required by the provisions of the general railroad laws upon the gross earnings of the several companies as ascertained at his office, and certified by him to the Auditor General who levied the tax and certified the amount due, to the several companies who pay the sum directly to the State Treasurer.

The total track mileage of the State as ascertained for purposes of taxation was 6,668.59 and if all the companies were taxed under the provisions of the general railroad law the following would be the result of the computation.

Gross receipts.	<b>\$34,540,908</b>	<b>59</b>
Taxable means per mile of road	5,187	<b>42</b>
Rate per cent of tax on income, average	2	19
Taxes per mile of road, average	113	52

The special chartered roads with the exception of the Lake Shore and Michigan Southern for several years past have been subject to heavier taxation under their charters than they would if taxed under the general law. The Lake Shore & Michigan Southern had it been taxed under the general law instead of the special charter would have paid for the year 1889, \$94,495.33 being in excess of the amount it did pay \$47,751.72.

The question of railroad taxation is an important one. While it may be reasonably questioned whether the railroads of Michigan are bearing quite their fair share of the public burdens, the taxes have been collected without protest from the companies and practically without expense to the State—the existing machinery of the State Government being sufficient for that purpose without additional provisions being necessary.

There was collected last year the sum of \$757,234.94, which, together with other specific taxes, amounted to \$821,333.87, was distributed to the several counties in proportion to their school age, as shown by the following table, which also shows the amount of State tax levied upon the property of each county.

xxxvi

# ANNUAL REPORT OF THE

# Apportionment of the Primary School Money during the year ending June 30, 1890.

Counties.	Amount.	Counties.	Amount.
loona.	\$1,862 92	Lake	\$2,672 7
lger	291 10	Lapeer	12,978
llegan	16.315 36 1	Leelansw	8,424
lpena	6,298 44	Lenawee	18.090 (
ntrim	4,027 60	Livingston	8,187
renac	2,154 74	Lace	515 7
araga	1,166 48	Mackinac	2,381 2
arry	9,974 70	Macomb.	18,873
A7	22,200 44	Manistee	9,274 8
enzie	2,128 06	Manitou	518 4
errien	16,228 58	Marquette	18,761
ranch	9,920 68	Mason_	6.257 8
alhoun	15,978 20	Mecosta	8,866
	7,885 14	Menominee	8,802
harlevoix	4,004 60	Midland.	4,897
heboygan	4,586 76	Missaukee	1,498
hippewa	4,077 68	Monroe	14,994
lare	2,549 08	Montcalm	13,751
linton	10,994 66	Montmorency	469
rawford	918 62	Muskegon	17,644
elta	5,074 98	Newaygo.	7,896
aton	12,540 66	Oakland	14,858
mmet	8,160 06	Oceana	6,420
enesse	15,178 20	Ogenaw	1,700
ladwin	998 94	Ontonagon	1,074
ogebic r'nd Traverse	2,396 02	Osceola	6,459
T'nd Traverse	5,012 36	Oscoda	544
ratiot	12,115 09	Otaego	1,656
(illadale	11,410 80	Ottawa Presque Isle	16,419
[oughton	14,076 84	Presque isle	1,871
luron	13,770 90	Roscommon	558
ngham	13,871 04	Saginaw	34,999
onia	12,685 54 5,290 82	Sanilac Schoolcraft.	15,466
osco	1,179 54	Shiawassee	1,161 11,782
sabella	7,849 00	St. Clair	22,449
sie Royal	1,020 00	St. Joseph	9,488
ackson	16.416 26	Tuscola.	14.089
alamazoo	14,608 88	Van Buren	12,107
alkaska.	2.015 24	Washtenaw	16,861
ent	38,715 78	Wayne	104,351
eweenaw	1,266 46	Wexford	4,178
	1100 BO	***************************************	±,210

#### COMMISSIONER OF RAILROADS.

Apportionment of State Tax, September 25, 1890.

Counties.	Aggregate of State Taxes Apportioned.	Counties.	Aggregate of State Taxes Apportioned,
Jeona	\$8,341 65	Leke	\$2,678 8
læer		Lapeer	18,044 8
llegan		Leelanaw	1.326 6
lpena		Lenawee	37.426 4
ntrim		Livingston	20,049 8
renac	1,670 82	Lace	
araga.		Mackinac	3,841 6
larry		Macomb	22,054 8
lay		Manistee	9,856 6
lenzie		Manitou	138 6
Berrien	22,723 20	Marquette	20,049 8
branch	28,391 53	Mason	5 346 6
alhoun	87,426 44	Mecosta	8,019 9
aes		Menominee	8,854 1
harlevoix	3,841 65	Midland	3.341 6
heboygan		Missaukee	4,844 1
hippewa		Monroe	20,049 8
lare		Montoalm	12,698 2
linton	22,723 20	Montmorency	1,670 8
rawford	2,339 15	Muskegon	14,708 2
Palta		Newaygo	6 849 1
aton		Oakland	36,089 7
mmet	2,673 82	Осеала	5,846 6
lenesee		Ogemaw Ontonagon (Act 88, '89)	2,004 9
Hadwin	1,970 82	Ontonagon (Act 88, '89)	2,506 2
ogebic	2,506 23	Qeceola	5,012 4
rand Traverse	5,246 68	Oscoda	1,836 6
<u> </u>	12,698 26	Oteego	2.678 3
Iilladale	28,069 88	Ottawa. Presque Isle.	17,376 5
Ioughton'	8,688 28	Presque Isle	1,670 8
Iuron	8,688 28	Roscommon	2,204 9
ngham	24,728 19	Saginaw	44 109 7
onia	22,728 20	Sanilao	10,024 9
0000	2,673 32 6,349 13	fichoolcraft	4,009 9 20,049 8
ron	0,349 13	Bhiawassee	20,019 8
sabella	6,014 96	St. Clair	22,054 8
ale Royal	183 67	St. Joseph	24,059 8
ackson	41,486 42	Tuscola	13,866 5
(alamazoo	82,079 81	Van Buren	18,713 2
[alkneka	5,012 47	Washtenaw	40,099 7
ent	60,149 64	Wayne	200,498 8
Leweenaw	8,675 81	Wexford	4,844 1

This system has so far proved a good one, and the primary schools, which are the only schools of the great mass of our people, have had the income derived from this source. As shown by the table above, some of the newer counties receive much more in primary school money than they pay into the State treasury in direct State tax. However, some modification of our method of computing taxes is necessary. The present law provides for a tax upon gross earnings, and also that on "railroads lying partly within and partly without the State there shall be paid such portion of the tax herein imposed as the length of the operated road lying within this State bears to the whole length of the operated portion thereof."

The United States Courts as well as a number of the State Supreme, Courts, have recently decided that in taxing on gross receipts only those receipts can be taxed which are earned on business done wholly within the State; that taxing earnings derived from the transportation of freight or passengers through the State, or from a point within the State to a point without the State, or from a point without to a point within, is an interference with commerce between the States and a violation of the United States constitution. One case now pending against the St. Paul, Minneapolis & Sault Ste. Marie Railroad Company involves this question and in case it should finally reach the United States Supreme Court it will undoubtedly be decided against the State.

Substantially the same results can be reached by providing for a board to determine the value of each railroad per mile including its equipments, and the gross earnings can be the basis of ascertaining the valuation of the properties for purpose of taxation. The Legislature can then fix the rate per cent which the roads shall pay into the State treasury and the same means utilized for the collection of the tax as are now employed. The Commissioner of Railroads, Secretary of State and Attorney General, now compose a board for the approval of maps of proposed railroads and crossings and for the approval of proposed consolidation of one railroad with another, and would be an appropriate board to determine the valuation of our railroads for the purpose of taxation. It is hoped that the attention of the Legislature will be called to this important matter, so that appropriate legislation may be had before the State is involved in litigation and loss to our primary schools incident to judgments adverse to the State occurs.

#### THE SPECIAL CHARTERED BAILROADS.

The railroads operating under special charters granted before the present constitution of the State was adopted have for some years attracted the attention of the Legislature, because general laws enacted for the government of railroads did not reach this class They have, however, recognized the police laws of the State of roads. and the competition of other roads has to a considerable extent regulated the charges for doing business on the specially chartered. On all but one of these roads the amount paid in taxes under the special charters for some years past has been equal to, or exceeded the amount they would have paid under the general law, so that no systematic effort has been made to determine the charters. There is, however, little doubt that in the near future some legal or equitable means will be found to place all the railroads in the State on precisely the same footing as regards the law governing their operation and the proportion of taxes they will be required to pay for the support of the government. Unlike the other chartered railroads, the Lake Shore & Michigan Southern Railway does escape a very large proportion of the taxes which it would be required to pay under the general law. The amount which our school fund is deprived by reason of this charter amounts now to the sum of over \$40,000 per annum. Believing that there must be some legal manner by which this corporation can be compelled to bear its fair share of the public burdens, eminent counsel has been employed to carefully examine the legal status of the company and give their opinion as to what is necessary to be done to accomplish this object. The firm of Atkinson, Carpenter, Brooks & Hough, who

had presented the people's case brought to test the validity of the passenger fare law of 1889 in a very satisfactory manner before the Supreme Court, were employed to do this work, but before they had concluded their research, Col. Atkinson was called away and ex-Judge Marston was taken into the case. The opinion will be found in the appendix to this report, as well as the draft of bills which, in their opinion, if enacted into a law would accomplish the purpose desired. This opinion has received the careful consideration of the Attorney General and is endorsed by him. It is hoped the Legislature will give this matter the attention which its importance demands.

# LEGISLATION.

# RECOMMENDED ON DIFFERENT SUBJECTS.

The laws of 1887, Act No. 236, provide for the approval of the map of a proposed railroad by a board consisting of the Commissioner of Railroads, Attorney General and Secretary of State. When the proposed railroad crosses the track of an existing railroad, provision is made for giving notice to the General Manager or General Superintendent of the existing road at least ten days before the time appointed for a hearing, but no provision is made for giving notice to private parties or municipal authorities whose interests are to be affected by the building of the proposed road. Justice to the interests of the people demand that some provision be made either by publication or in case of residents, the serving of a personal notice on those whose property is to be taken, that they may have an opportunity to be heard before the map is approved. Municipalities should also be notified that they may appear and be heard in relation to the method of crossing streets and highways. The great number of fatal accidents occurring at grade crossings makes the necessity of providing, wherever practicable, for some crossing rather than at grade imperative. It is to be hoped that some provision will be made for the gradual abolition of all street and highway crossings of railroads at grade. Massachusetts has such a law providing that the railroad companies, the township or city, and the State each contribute to the necessary expense. The argument for such policy is found in this volume showing the number of people killed and injured at street crossings. The law now gives the commissioner of railroads authority to order a bridge wherever in his judgment the safety of the public requires it, and this power has been sustained by the Supreme court in the Fort Street Union Depot case, but there is no provision for condemning the property in front of or adjacent to the approaches to such bridge, nor is there any law to determine what the damages are or by whom they shall The law should plainly direct how the damages are to be ascertained and who is to pay them, or at least provide a proper tribunal to determine these questions. In most places when bridges are required the adjacent property is valuable and should be protected and at the same time means provided whereby the safety of the public can be secured.

The number of street car tracks now being built across railroad tracks at grade and the danger to which people are exposed at these crossings demand that some competent tribunal should determine under what conditions these crossings should be made. In this connection also should be considered the question of the height of electric wires above

railroad tracks. So numerous are the purposes for which electricity is now utilized, almost innumerable wires are being strained across the railroad tracks. To be safe for brakemen standing on the highest cars now in use any obstruction must be twenty-two feet in height above the rail. During the present season several wires have been strung across the tracks of different railroads for the purpose of furnishing power for the propulsion of street cars. They were at first erected at a height of eighteen feet and as the wires were sagged by the effect of the heat, they were in some instances considerably lower. In addition to the danger of knocking men off the cars these wires carry. a strong electric current. So great was the danger to train men that an order was issued under the general powers conferred by law on the Commissioner of Railroads to raise the wires to a height of twenty-four feet. The two feet in addition to the height required for a bridge or other permanent structure was required for the two-fold reason that the wire is not rigid and that it is charged with an electric current sufficiently strong to be dangerous. The officers of the street car companies claimed that twenty-four feet was higher than their trolleys could be After considerable negotiation they were raised to made to work. twenty-two feet and securely fastened. While this is not as high as safety requires it seemed to be the best that could be done under the circumstances and the matter was permitted to rest. The law should regulate the height of all wires over railroad tracks and they should be permitted to be put up only in such a manner as to be secure, this to be determined by inspection by competent authority. Provisions should also be made for the crossing of railroads by the tracks of street railroads and provide what safety appliances should be erected for the protection of passengers on the respective roads. Gates can be erected and so interlocked with a rail on the street railroad that it will be impossible for a street car to get on to the track of the steam railroad when the gates are lowered across the street.

# CONCLUSION.

In conclusion it is proper to say that the numerous recommendations made are those believed to be needed and just to all interests, after four years experience in the important position of Commissioner of Railroads. It is not expected the Legislature will take the same view of all the questions that have been urged here, but after having been honored by the people through you in being permitted to occupy this responsible position for so long a term, I cannot conscientiously do less than to give to the Legislature, and those who succeed me the benefit of the experience.

If it calls attention to the various matters which need attention, the purpose will have been accomplished, and the people's representatives

can be relied upon to do that which is best.

The officers of the railroad companies continue to make the reports required by law promptly and show a commendable spirit in complying with the orders of the department made for adoption of safety appliances and for the protection of the people at street and highway crossings, for which the thanks of the department are due.

There is a material increase in the business of the office, as will be shown by the records. No increase in the force employed has been

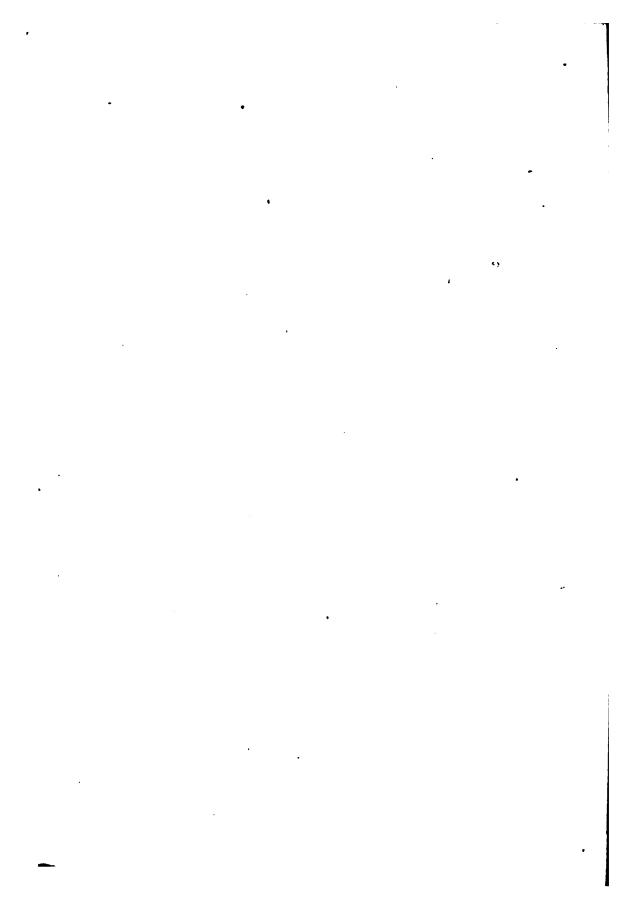
made, nor change in the personel. The current work has been done promptly and done well. With the increase in railroad mileage and mechanical appliances, and especially in interlocking switches, the employment of a competent mechanical engineer becomes yearly more of a necessity. The present incumbent, Mr. C. B. Conger, has been industrious and painstaking and is an expert in mechanical appliances of marked ability. His report will be found in the appendix to this report.

In closing this, my last official report, allow me to again thank you for the moral support my official acts have received from you, and for

the judicious and friendly counsel given whenever sought.

Very respectfully yours,

Commissioner of Railroads.



# APPENDIX.

# EIGHTEENTH ANNUAL REPORT

OF THE

# COMMISSIONER OF RAILROADS

OF THE

STATE OF MICHIGAN.

1890.

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# APPENDIX.

# REPORT OF THE MECHANICAL ENGINEER.

Office of the Commissioner of Railroads, Lansing, Mich., December 1, 1890.

HON. JOHN T. RICH.

Commissioner of Railroads:

Sir.—During the year since the date of the last report considerable progress has been made in the adoption of safety appliances required by law on the railroads in this State. With a single exception—one car on the St. Joseph Valley Railroad—all passenger. baggage, mail and express cars used in passenger trains are equipped with air brakes. Three roads only use non-automatic vacuum brakes, one of which, the Cin. Wabash & Mich., is changing their equipment to automatic pressure brakes. In some cases the leverage or breaking power is not as high a percentage of the weight of the car as it could be, so that trains can not be stopped in the shortest possible distance in case of accident. There are about 100,000 freight cars belonging to the companies doing business in this State; 4,604 have air brakes; this number is being increased daily, so it is only a question of a short time when there will be enough air brake cars in every train to control the speed. A great many solid stock trains fully equipped with automatic brakes cross the State every day. It is to be hoped that all refrigerator cars will be also thus equipped in the near future. These cars are very generally run on a guaranteed time, at a high rate of speed and need all the brake power possible to make them safe. A fair share of freight cars belonging to other companies in our through trains are thus equipped; if the engine has an air pump, these cars are placed next the engine so as to utilize the power brakes. Driver and tender brakes operated by steam or air are being placed on locomotives by some of the companies as fast as the material can be obtained and the engines taken in the shop. Of the 2,359 engines which run in this State on commercial roads 1,415 are equipped with air pumps, 1,359 have driver brakes. All engines with air pumps for train service have tender brakes, but all these do not have driver brakes. A great many freight and switch engines are provided with steam or vacuum driver and tender brakes so that the number of engines that have a power brake on tenders will reach about 1,600. The number of driver brakes has increased 180 and air pumps 113 since March 1, 1890. A few of the smaller corporations are not moving very fast in this direction but as the time limit of the law expired only two months ago it is hardly possible for all to have complied with it. Without exception all engines built or purchased from the builders are equipped with power brakes. Some of the driver brakes in use do not have the proper percentage of braking power to weight on drivers—60 per cent is the authorized standard—which leaves a large share of the weight of the engine free, this weight must be stopped by the cars in addition to stopping themselves. Some of the short trains require from 50 to 100 per cent more distance to stop in than would be required if the proper leverage was insisted on.

The safety heating problem is yet a long ways from solution. Such of companies as have adopted some method of steam heating from the engine and use it whenever possible are able in such cases to do away with fire in the cars. The M. C. R. R., D. L. & N., C. & W. M., G. R. & I., C. W. & M., Mil. & Northern, C. & N. W. Ry., main line trains of the L. S. & M. S. and two fast trains on the C. & G. T. Ry., use steam heat in their trains with very good results. When the present troublesome defects of couplings and piping outside the cars are remedied by experience, steam will be the successful heat.

An absolutely safe car stove that will heat any car has not been discovered yet. Openings to put in fuel are not always kept closed when cars are in motion; none of them

after being in service one season are strong enough to stand a severe wreck.

Hot water heating by the Baker system or other heaters of that type is pretty generated both for regular heating and as an auxiliary in steam heated trains. While ally used, both for regular heating and as an auxiliary in steam heated trains. While this does not do away with fire in the car, the Baker type of heater is safer than an ordinary stove in case of accident. A large share of the passenger cars in this State are equipped with this type. Some of the companies have all their cars so heated, others are putting them in as fast as the cars can be spared from service or come into the shop for overhauling. There are still some cars running on the smaller roads which have ordinary stoves. As they run very few trains, most of them part freight cars, they are not very dangerous when all the conditions are taken into consideration. The oil used for lighting cars in passenger trains has been tested at various times; when found below the standard established by law the company has been notified at once and oil of 300 degrees substituted.

One hundred three thousand and fifty-nine cars other than passenger were

reported by companies operating in the State Jan. 1, 1890.

Of the total number of cars provided with automatic couplers of the M. C. B. type the C. & N. W. Ry., reports 2,310, L. S. & M. S. 2,280, M. C. R. R., 1,470, F. & P. M., 555 G. R. & I., 490, C. & W. M., 200, C. & G. T. Ry., 50, Wabash R. R., 90, Mil. & Northern' 500, Mil. L. S. & W., 115, D. L. & N., 15, other companies have a few on trial. Nearly' Builders' type of coupler for use in the freight service. Some have hundreds in use, others a few only, while some have none at all in service and manifest no disposition to comply with the law. There are 8,075 cars reported now as against 4,793 in March, 1890, an increase of 3,367. If the crippled link and pin couplers, supposed to be safety and automatic when first put on the cars, were replaced with others and their rods and levers for guiding the links and raising the pins taken off the cars it would make coupling cars less dangerous. As long as a link is used for coupling cars, men will have to go between the ends of them and get hurt as there is no mechanical substitute for the hand in guiding the link and putting down the pin. Do away with the link and the hands need not be used for that purpose. It is hoped by all the trainmen that something will be done at once to make less dangerons that class of cars that have long deadwoods each side of the drawhead extending both above and below the level of the link. When two of this class of cars come together it is impossible to couple them in the usual way, because the deadwoods or buffers strike each other before the coupling is made. As it is practically impossible to take these buffers off now the only way to make them even moderately safe is to require that a type of coupler be put on them which does not need a link and pin when two cars of this specially dangerous class come together. Cars used in log service certainly need immediate attention. Logs are habitually loaded over the ends of flat cars so that it is very dangerous for train men to couple or uncouple them. In the case of narrow guage logging trucks where long "reaches" are used in making up trains it may be impracticable to use the M. C. B. coupler but all other log cars should have them at once.

Bridges are improving in character and strength each year, iron and stone are replacing wood and piling. A large amount of wooden trestle bridge has been filled up with earth and more than the usual amount of new work built. There have been no bridge accidents, nor have any bridges been condemned by this Departement, altough repairs have been called for in several cases. The law in regard to blocking frogs and guard rails is much better observed; there are very few points where the blocking is not closely

looked after and accidents from neglect are very rare.

I would respectfully call your attention to the switch stands, water stand pipes and watchmen's cabins that are set too close to the main track, so that trainmen going up the side ladders or leaning out are liable to be struck and knocked off. All stand pipes and water tanks should clear the main track so there will be no possible danger to trainmen when passing at speed. Switch stands can easily be set a safe distance from main tracks to clear any thing, provided they are not located between two tracks in yards.

There are a number of telegraph order boards set so low down that they are not visible from an engine over a box car. This is not safe where a car can stand in front of a station and hide the signal from a passing train and the order boards should be set a moderate height so they can be seen from as large a part of the yard and tracks as possible. Switch targets painted the same color as the building or cars standing in the backgrounds are invisible to an engineer till too late to stop. They should be painted a bright color easily seen no matter what position they stand in and should have a certain different shape as well as different color for open and shut.

There are 60 interlocking machines at work at present and five more in process of construction. About all of them are kept in good order, a few that were not very well put in are giving out and require constant repairs. The cable and wire machines give the most trouble on account of the difficulty of keeping the cable the right length at all times. There is a demand for a better class of machines and a more rigid inspection of them than when first put in. As far as my observation goes the companies using these machines are satisfied that a cheap machine is the dearest in the end. I have inspected all these machines at intervals and have also been furnished monthly reports of their condition by the officials in charge of them. A gery few accidents have taken place from carelessness on the part of towermen or enginemen. Besides the saving of time and expense of stopping all trains, they are much safer than a crossing protected by signals only.

Respectfully submitted

C. B. CONGER, M. E.

#### STATEMENT

Showing number of locomotives, number with air pumps, number with driver brakes, number of cars with Master Car Builder's type of couplers and number of freight cars with air brakes, belonging to companies operating railroads in this State. Ore and forest roads not included.

Company.	Total locomotives.	With air pumps.	Driver brakes.	M. C. B. couplers.	Air brakes.
An Sable & North Western  Eattle Creek & Sturgis C. & G. T. Ry G. T. B., Detroit Division and M. A. S. Division  C. K. & S.	16 2 151 31	1 2 119 18	16 81 10	50	
C. & N. W. By C. & W. M C. J. & M Cin. Webesh & Mich C. S. & M	786 55 25 27 All 8	598 29 14 vacuum, 5 air p 6	412 27 8	2310-Aug. 200	1 2661 200
D. B. C. & A D. G. H. & M D. L. & N D. S. S. & A F. & P. M.	20 41 44 106 93	6 17 24 34 85	20 10 8 73 71	15	15 34
F. & S. E. G. R. & I. L. S. & M. S. Lowell & Hastings Manistique B. R.	2 65 236 2 5	1 48 66 Mar. 1	2 40 1 208 1 5	490 2280	29 201
Mich. Central. Mil. L. S. & W. Mil. & Northern. M. St. P. & S. Ste. M. Mineral Bange & Hancock & Calumet	800 97 87 62 12	149 77 30 54 4	116 42 26 62 5	1470 115 500	545 382 36
Manistee & North Bastern. P. O. & N. P. H. & N. W. S. T. & H. St. J. Valley	6 5 11 6 1	3 3 11 All vacuum.	4 1 2 1		1
T. A. A. & N. M. T. S. & M. Toledo & South Haven Wisconsin Central Wabash B. B.	38 6 3 40 17	18 2 2 vacuum. 37 10	20 2 40 12	90	500
	2359	1415	1859	8075	4604

There are more locomotives in the entire equipments, with the exception of the C. & N. W. By., the number given includes locomotives used in the State. There are about 100 of the 786 C. & N. W. Ry. engines at work in this State; with the exception of a few switch engines, all have air pumps and driver brakes. Since last March there has been an increase of 113 air pumps, 180 driver brakes, 3417 M. C. B. couplings, and 991 air brakes freight cars to the equipment.

# **STATEMENT**

Of new railroad corporations formed and reorganizations, amendments of old charters and miscellaneous changes since date of the last report from the Commissioner of Railroads, as shown by returns from the office of the Secretary of State, October 1, 1890.

# NEW CORPORATIONS.

MARQUETTE, CHAMPION & CHICAGO RAILWAY Co.
Termini, Marquette County, Marquette and Champion.
Proposed length, 33 miles.
Capital stock, \$2,000,000.
Articles filed, October 2, 1889.

Grand Rapids & Lake Michigan Railroad Co. Termini, Grand Rapids and Holland. Proposed length, 25 miles. Capital stock, \$750,000. Articles filed, October 22, 1889.

DEAD RIVER RAILROAD COMPANY.

Termini, Marquette county. From a point on Duluth, South Shore & A. R. R. to a point near mouth of Dead river.

Proposed length, 3 miles.
Capital stock, \$25,000.

Articles filed, November 11, 1889.

Manistee & Grand Rapids Railroad Company. Termini, Manistee and Grand Rapids. Proposed length, 110 miles. Capital stock, \$1,000,000. Articles filed, November 11, 1889.

CINCINNATI, SAGINAW & MACKINAW RAILROAD COMPANY.
Termini, State line township of Seneca, Lenawee Co. and Straits of Mackinaw.
Proposed length, 350 miles.
Capital Stock, \$5,000,000.
Articles filed, December 28, 1889.

DETROIT & PETOSKEY RAILROAD COMPANY.
Termini, Wolverine and Petoskey.
Proposed length, 28 miles.
Capital stock, \$208,000.
Articles filed, January 9, 1890.

ESCANABA, IRON MOUNTAIN & WESTERN RAILROAD CO.
Termini, Escanaba and Crystal Falls via Florence, Wis.
Proposed length, 90 miles.
Capital stock, \$2,500,000.
Articles filed, January 24, 1890.

Benton Harbor Belt & Terminal Railway Co.
Termini, Berrien county. From Benton Harbor to township of Royalton.
Proposed length, 10 miles.
Capital stock, \$80,000.
Articles filed, February 24, 1890.

Frankfort, Crystal Lake & Glenn Arbor R. R. Co. Termini, Frankfort and Glenn Arbor. Proposed length, 44 miles. Capital stock, \$400,000. Articles filed, March 20, 1890.

Grand Rapids, Chicago & St. Louis Railroad Company. Termini, Grand Rapids and Benton Harbor, via Holland. Proposed length, 80 miles. Capital stock, \$1,000,000. Articles filed, March 27, 1890.

OLIVET RAILWAY COMPANY.
Termini, Olivet and G. T. Ry. at Olivet Station.
Proposed length, 2½ miles.
Capital stock, \$20,000.
Articles filed, May 5, 1890.

DETROIT & TOLEDO RAILWAY COMPANY. Termini, Detroit and Toledo. Proposed length, 50 miles. Capital stock, \$400,000. Articles filed, June 28, 1890.

IRON RANGE & HURON BAY RAILROAD Co. Termini, Huron Bay and Michigamme. Proposed length, 50 miles. Capital stock, \$500,000. Articles filed, June 30, 1890.

SOUTH LYON & NOBTHERN RAILWAY COMPANY.
Termini, Leeland, Washtenaw county, and Flint.
Proposed length, 40 miles.
Capital stock, \$400,000.
Articles filed, July 21, 1890.

PAINT RIVER RAILWAY Co.
Termini in Iron Co.
Proposed length, 15 miles.
Capital stock, \$120,000.
Articles filed, June 14, 1890.

#### AMENDMENTS.

CHICAGO & WEST MICHIGAN RAILWAY CO.
Adding branch from Baldwin to Mackinaw City.
Filed, July 19, 1889.

DEFROIT & St. CLAIR RIVER RAILWAY Co. Increasing number of directors. Filed, January 29, 1890.

Toledo, Ann Arbor & North Michigan Railway Co. Termini, Toledo, Ohio, and Copemish, Mich. Proposed length, 377 miles. Capital stock, \$8,000,000. Articles filed, May 22, 1890.

#### SALES.

IBON RANGE RAILWAY COMPANY.
Notice of sale to Chicago & North Western Railway Company.
Filed, March 19, 1890.

#### RE-ORGANIZATIONS.

BAY CITY & BATTLE CREEK RAILWAY COMPANY. Termini, Bay City and Battle Creek. Proposed length, 130 miles. Capital stock, \$1,000,000. Articles filed, November 12, 1889.

BATTLE CREEK & STURGIS RAILWAY COMPANY. Termini, Battle Creek and Sturgis. Proposed length, 40 miles. Capital stock, \$1,000,000. Articles filed, November 14, 1889.

Sturgis, Goshen & St. Louis Railway Company. Termini, Sturgis and Michigan State line. Proposed length, 6 miles. Capital stock, \$2,000,000. Articles filed, May 29, 1890.

# **CIRCULARS**

ISSUED BY THE COMMISSIONER OF RAILROADS TO RAILROAD MANAGERS AND EMPLOYES, DURING THE YEAR OF 1889-90.

OFFICE COMMISSIONER OF RAILROADS, Lansing, Mich., December 20, 1889.

To General Managers and Superintendents of Railboads:

You are hereby directed to cause a daily examination of all interlocking devices under your respective charges, to be made on and after January 1, 1890, and cause a record to be made of such inspection, whether out of order or not.

On or before the fifth day of each month you will report to this office the condition of the several interlocking devices under your charge for the preceding month, for which purpose you will receive blanks now in course of preparation.

All serious accidents should be made a special report of at once.

In case of any derangement of block, derailer or detection bar, the order allowing trains to cross without being brought to a full stop, as required by law, is hereby suspended in each case until the device is again in order.

You will instruct the attendants in case of any derangement of the character noted above, to in no case give the train a signal to cross until the train has been brought to a full stop, as required by law.

Yours respectfully,

JOHN T. RICH, Commissioner of Railroads. OFFICE COMMISSIONER OF RAILROADS, Lansing, Mich., December 20, 1889.

To General Managers and Superintendents of Railroads:

The fact that it is not uncommon to find the detection bars uncoupled or removed from interlocking switches, and in some instances switch blocks removed, and in others derailers uncoupled and spiked, thus not only removing the measure of safety expected to be obtained by the use of the interlocker, but making them the cause of increased danger, is the reason for the issuing of the enclosed order.

After careful examination and due consideration, it is deemed absolutely necessary that this or some equally effective method for the care of these important devices should be adopted, or they will be found elements of danger rather then safety. As an aid to keep these devices in order, this departement will cause inspections to be made at

irregular intervals.

Your hearty and earnest co-operation in making the interlocking machines safe and

efficient is earnestly requested.

Blanks for monthly reports to this office will be furnished as needed. Yours respectfully,

> JOHN T. RICH. Commissioner of Railroads.

STATE OF MICHIGAN, OFFICE OF COMMISSIONER OF RAILROADS, Lansing, Mich., January 8, 1889.

To General Managers and Superintendents of Railboads:

Owing to the fact that no system of heating cars has yet proven entirely satisfactory and that the weather during the winter of 1888 and 1839 was so mild that no real tests were possible as to the efficiency of methods of heating not previously tested, this departement determined to adopt a conservative course and avoid to some extent the experiences of the winter 1889 and 1890. Railroad managers were informed that the better class of hot water heaters would not be ordered out during the present winter. But it has recently come to the knowledge of this departement that in some instances cast iron stoves usually used with the door in the side open, are being used in cars forming part of passenger trains. In some instances they are cars belonging to foreign companies whose cars run through this State, but as they are cars belonging to foreign of the letter and spirit of the law, they must not be used in any car forming part of a passenger train under any circumstances. In addition to this a class of frail heaters, of which the spears is a fair representative, is still used in some of the cars now running in this State, which will not stand any considerable shock without permitting fire to escape, and no time should be lost replacing them with safer heaters. Heaters of the McEwan type which are constructed substantially, but are rendered dangerous by the door being left open, should be removed as soon as possible, and meanwhile all com-panies having them in use, in case of accident therefrom, will be held to strict accountability under the provisions of the law. When doubt exists as to what heater should be put in, it would seem that any company would be safe in adopting the Baker Hot Water Heater on which there is no patent, and which can afterwards be enclosed in a steel closet, or the pipes utilized for steam, or the water in the pipes heated by steam while the heater can be used in emergencies. Your co-operation is respectfully urged in making the heating of cars as safe as possible pending the perfection of some system or systems of heating cars which may properly receive the approval of this department, and in which you have confidence enough to feel justified in adopting for use on your respective lines.

Yours respectfully,

JOHN T. RICH. Commissioner of Railroads. STATE OF MICHIGAN.
OFFICE OF THE COMMISSIONER OF RAILROADS,
Lansing, Mich., Feb. 11, 1890.

To General Managers and Superintendents of Michigan Railroads:

It having come to the knowledge of this department, that the wires of electric street railroads have been erected at a less distance above the track than is allowed by law for bridges and other obstructions unless suitably guarded, and believing that a heavily charged electric wire is an obstruction which is especially dangerous, you are hereby instructed not to permit the erection or maintenance of such wires across the tracks of any steam railroads, unless they are so high above the tracks that a man on the highest cars run on the road will not be injured by them, which to cover all contingencies should not be less than twenty-four feet above the track. Provision should also be made against accidents in the case of the breaking of an electric wire at or near the crossing of a steam railroad. It is probable that the street railroad companies were aware of the danger to which their wires subjected train men, or they would not have been thus erected, but the number of crossings of this kind which are liable to be made in the near future, and the great danger to human life which they involve, demand prompt action on your part, and it is earnestly urged that you will give this important matter immediate attention.

Very respectfully yours,

Commissioner of Railroads.

OFFICE OF THE COMMISSIONER OF RAILROADS, Lansing, Mich., March 1, 1890.

To General Managers and Superintendents of Michigan Railroads:

GENTLEMEN—In 1886 my predecessor, Hon. William McPherson, under the provision of the law, selected seven so-called automatic car couplers from which railroad companies were to select some pattern for use on their respective roads. Mr. McPherson called to his aid the service of many of the managers and mechanical superintendents of Michigan, and there is no donbt that each coupler selected met with the approval of some practical railroad men. Except by the representatives of some couplers not in the list, I have never heard the wisdom of the selections made questioned, considered in the light of the experience then possessed. The experience of four years has, however, demonstrated, that few if any of them are of practical value for the purpose for which they were intended—to preserve the lives and limbs of train men. The reason of their failure is too well known to all of you to require explanation here. One thing may, however, be stated; that is, they lack uniformity, without which any number of couplers, however perfect in themselves, must fail when put into service. On January 1, next, the law of this State requires all freight cars to be equipped with automatic couplers. If the railroad companies go on and comply literally with the law, but select from different types of couplers, nothing has really been accomplished towards reducing the casualties resulting from the coupling of cars; and, in the opinion of many, the danger has been actually increased. In view of the action of a majority of the master car builders in adopting a particular type of coupler which, while coupling with each other, is not confined to a particular kind of which some syndicate has a monopoly, and the action of so many of the leading roads in adopting this type leads to the hope that through this action early uniformity is promised, while competition and experience may be relied upon to remedy any defect which their general use may show them to possess. For the reasons stated you are respectfully requested to advise me of your reasons why all of the following named couplers should not be withdrawn from the list of those from which companies may select. This will leave only two now standing as approved, the Janney and Dowling, both of the master car builder's type. There is no reason why others of this type should not be approved, and the withdrawal of the accompanying list will leave the field clear for the approval of any new devices presented under the provisions of the Coupler Act of 1887. Also, if this action is taken, is there any reason why all railroad companies shall not be required to equip their cars with this type of coupler as fast as the cars go to the shops for repair or new ones are built?

This is an important question which it is hoped each one of you will consider, and advise this office on or before April 1, of your conclusions. Those making no reply will be presumed to favor the action outlined above.

The following is the list of couplers hereinbefore referred to: AIRMAN COUPLES—P. A. Aikman, Detroit, Mich. BLOCKER—John A. Blocker, Chicago, Ill. MARKS—C. E. Marks, Flint, Mich. PERRY—W. V. Perry, Chicago, Ill. Ames—Ames Car Coupling Co., Philadelphia, Pa. THE COWELL—Cleveland, Ohio.

McCree—James McCree, Lansing, Mich. Very respectfully yours,

JOHN T. RICH, Commissioner of Railroads.

ORDER OF THE COMMISSIONER OF RAILROADS UNDER THE PROVIS-IONS OF ACT NO. 88, SESSION LAWS OF 1887 REGULATING THE USE OF FREIGHT CAR COUPLERS AND CIRCULAR WITH REGARD TO POWER BRAKES AND PASSENGER CAR HEATERS ON MICHIGAN RAILROADS FROM AND AFTER JANUARY 1, 1891.

> OFFICE OF THE COMMISSIONES OF RAILBOADS, Lansing, Mich., May 20, 1890.

To General Managers and Superintendents of Michigan Railroads:

GENTLEMEN—On March 1, 1890, a circular of inquiry was issued from this office as to the propriety of withdrawing from the list of couplers, from which railroads may select all so-called automatic link couplers, and requiring all cars to be equipped with the Master Car Builder's Type as fast as new cars are built or taken to the shops for renewal

of draw-bars or general repairs.

The replies to this circular are almost unanimous in favor of this action. There is a difference of opinion as to when all cars should be required to be be equipped, but otherwise both managements and train men favor this action. Favorable replies have been received from the general managers of the following railroads—Chicago & West Michigan; Chicago & North Western; Detroit, Lansing & Northern; Flint & Pere Marquette; Grand Rapids & Indiana; Lake Shore & Michigan Southern; Michigan Central; Milwaukee, Lake Shore & Western; Milwaukee & Northern; and the Toledo, Ann Arbor & North Michigan. Personal interviews with the managers of other roads who have not made formal replies to the circular show a general consequence of onlying favorable. not made formal replies to the circular, show a general consensus of opinion favorable to the proposed action by this departement.

Having fully considered this subject, it has been decided to follow the course indicated in circular of March 1, 1890. You will therefore take notice, that on and after this date the several freight car couplers authorized for use in the State by the official order of the Commissioner of Railroads, promulgated May 1, 1886, a copy of which is appended hereto, viz: the Aikman Automatic Car Coupler; the Ames Automatic Car Coupler; the Blocker Automatic Car Coupler; the Cowell Freight Coupler; the Marks Automatic Coupler, the McCree Automatic and the Perry Car Coupler will no longer be authorized for use in this State, and the above mentioned order is hereby recalled

and rescinded.

The following couplers or draw bars of the vertical plane class have already been authorized for use in this State, viz: the Janney, Dowling, Gould, and Hinson, and other couplers of the Master Car Builder's type, will be approved, upon the application of the manager or any railroad wholly or partly in this State, upon depositing in this office a model of the coupler desired to be used.

For your information the provisions of the law of this State in relation to car couplers. the circular of March 1, and the replies, so far as available for publication, thereto are

appended to and made a part of this circular.

That of Mr. Ledyard, president and general manager of the Michigan Central Railroad Company, enclosing copy of resolution adopted by the president of the Vanderbilt system of roads in the United States, April 29, ult., is of especial importance in this connection, as the roads represented at that meeting not only have large track mileage of their own, but in importance of line and traffic connections are second to no other system in the country. Their official action with reference to the matter in question must necessarily have an important bearing upon its final solution.

Yours respectfully,

JOHN T. RICH, Commissioner of Railroads.

#### ORDER WITH REGARD TO USE OF AUTOMATIC COUPLERS ON FREIGHT CARS.

	OF	FICE OF	St THE	ATE OF MICHIGA COMMISSIONER	OF RAILEOADS.
To					
of					
•					

WHEREAS, The Legislature of the State of Michigan, by the requirements of Act No. 147, Session Laws of 1885, "Approved June 5, A. D, 1885," provided for the introduction and use on all cars owned and operated by any railroad company or other corporation doing business in this State of some form of automatic car coupling, which said Act No. 147 reads as follows:

AN ACT to provide for the introduction and use on all cars owned and operated by any railroad company or other corporation doing business in this State, of some form of automatic ear coupling, by means of which all cars may be coupled and uncoupled without the necessity of the brakeman or other person passing between the cars.

SECTION 1. The people of the State of Michigan enact, That every railroad company on and after the first day of July, 1836, owning or operating a railroad or any portion of a railroad, wholly or partly in this State, shall place or cause to be placed, upon every freight car thereafter constructed, purchased, or leased by such corporation, and upon every freight car owned or leased by such corporation which is sent to the shop for general repairs, or for repair of the coupling fixtures thereof, with the intent to use such car, such form of automatic or other safety coupler, at each end thereof as the Commissioner of Railroads after examination and test of the same may prescribe. And such Commissioner of Railroads, on or before May 1, 1836, shall select two or more different patterns of automatic or safety coupler which will couple with each other, and also with the link and pin coupler now generally in use, from which patterns said railroad companies may select couplers for use on cars, as required by this Act.

SEC. 2. The provisions of this sot may be enforced by any Circuit Court of this State in a county through which the railroad of any company refusing to comply with such provisions may run, upon application of the Commissioner of Railroads, under such penalty as the said court may determine, of not less than one hundred dollars for each violation of the provisions of this act.

Now, therefore, be it known, that in accordance with the requirements of the aforesaid Act No. 147, and by virtue of the authority therein vested in the uedersigned, Commissioner of Railroads, in and for said State of Michigan, I have this day selected, and by these presents do hereby select, the following named automatic car couplers, and designate the same for use on the several railroads in the State, to wit:

The Aikman Automatic Car Coupler; P. A. Aikman, Detroit, Mich., Patentee.

The Ames Automatic Car Coupler; Ames Car Coupling Co., Philadelphia, Pa., owners. of patent.
The Blocker Automatic Car Coupler; John C. Blocker, Chicago, Ill., Patentee.

The Cowell Freight Coupler; The Cowell Platform and Coupler Co., Cleveland, Ohio, owner of patent.

The Marks Automatic Coupler; C. E. Marks, Flint, Mich., Patentee.
The McCree Automatic Coupler; James McCree, Lansing, Mich., Patentee.
The Perry Car Coupler (with "safety attachment"); W. V. Perry, Chicago, Ill., Patentee.

And it is hereby ordered and directed-

1. That you select from the patterns of couplers contained in the above designated list, one or more thereof to be placed on the cars in use upon the railroad tracks owned or operated by your company within the limits of the State of Michigan from and after the first day of July, next, in accordance with the provisions of said Act No. 147 hereinbefore recited.

That on or before the said first day of July, A. D. 1886, you report to this office the selection of couplers made by you for use on your road, in accordance with the

requirements of the preceding section of this order.

Given under my hand, at the Capitol, in the city of Lansing, this first day of May,

Wm. McPherson, Jr., Commissioner of Railroads.

AN ACT to provide for the introduction and use on all cars owned and operated by any railroad company or other corporation doing business in this State, of some form of automatic car coupling, by means of which all cars may be coupled and uncoupled without the necessity of the brakeman or any other person passing between the cars.

[Act No. 88, Laws of 1887.]

(288.) SECTION 1. The People of the State of Michigan enact, That on and after the first day of July, one thousand eight hundred and eighty-eix, every railroad company owning or operating any portion of a railroad wholly or partly in this State, shall cause to be placed upon each and of every freight car thereafter constructed, purchased or leased, for use in this State, by such corporation; or which may be sent to the shops for general repair or for repair of the coupling fixtures thereof, some form of safety coupler or safety coupling device, by which the cars can be coupled and uncoupled from either side of the train without the necessity of going between the cars, and which will couple with either forms of safety coupler, and with the ordinary link and pin coupler: Provided, That no coupler or device for coupling of cars shall be adopted for use by any railroad company owning or operating any railroad wholly or partly within this State antil approved by the Commissioner of Railroads: Provided further, That no freight car shall be run upon any of the railroads within this State after the first day of January, eighteen hundred and ninety-one, unless furnished with safety couplers as provided by this act.

This act is ordered to take immediate effect.

Approved April 26, 1887.

OFFICE OF THE COMMISSIONER OF RAILROADS, & Lansing, Mich., March 1, 1890.

To General Managers and Superintendents of Michigan Railroads:

GENTLEMEN-In 1886 my predecessor, Hon. William McPherson, under the provision of law, selected seven so-called automatic car couplers from which the railroad companies were to select some pattern for use on their respective roads. Mr. McPherson called to his aid the service of many of the managers and mechanical superintendents of Michigan, and there is no doubt that each coupler selected met with the approval of some practical railroad men. Except by the representatives of some couplers not in the list, I have never heard the wisdom of the selections made questioned, considered in the light of the experience then possessed. The experience of four years has, however, demonstrated that few if any of them are of practical value for the purpose for which they were intended—to preserve the lives and limbs of train men. The reason of their failure is too well known to all of you to require explanation here. One thing which they were intended—to preserve the rives and lines of train line. The reason of their failure is too well known to all of you to require explanation here. One thing may, however, be stated: that is, they lack uniformity, without which any number of couplers, however perfect in themseves, must fail when put into service. On January 1, next, the law of this State requires all frieght cars to be equipped with automatic couplers. If the railroad companies go on and comply literally with the law, but select from different types of couplers, nothing really has been accomplished towards reducing the casualties resulting from the coupling of cars; and, in the opinion of many, the danger has been actually increased. In view of the action of a majority of the master car builders in adopting a particular type of coupler which, while coupling with each other, is not confined to a particular kind of which some syndicate has a monopoly, and the action of so many of the leading roads in adopting this type leads to the hope that through this action early uniformity is promised, while competition and experience may be relied upon to remedy any detect which their general use may show them to possess. For the reasons stated you are respectfully requested to advise me of your reasons why all of the following named couplers should not be withdrawn from the list of those from which companies may select. This will leave only two now standing as approved, the Janney and the Dowling, both of the master car builder's type. There is no reason why others of this type should not be approved. why others of this type should not be approved, and the withdrawal of the accompanying list will leave the field clear for the approval of any new device presented under the provisions of the Coupler Act of 1887. Also, if this action is taken, is there any reason

why all railroad companies should not be required to equip their cars with this type of couplers as fast as the cars go to the shops for repairs or new ones are built?

This is an important question which it is hoped each one of you will consider, and advise this office on or before April 1, of your conclusions. Those making no reply will The following is the list of couplers hereinbefore referred to:
AIRMAN COUPLEE—P. A. Aikman, Detroit, Mich.
BLOCKER—John A. Blocker, Chicago, Ill.

MARKS—C. E. Marks, Flint, Mich.
PERRY.—W. V. Perry, Chicago, Ill.
AMES—Ames Car Coupling Co., Philadelphia, Pa.
The Cowell.—Cleveland, Ohio.

McChae Langing Mich.

McCree-James McCree, Lansing, Mich.

Very respectfully yours, JOHN T. RICH,

Commissioner of Railroads.

MICHIGAN CENTRAL RAILBOAD COMPANY, ) PRESIDENT'S OFFICE, Detroit, Mich., May 5, 1890.

John T. Rich Esq., Comr. of Railroads, Lansing:

Dear Sir-Inclosed herewith I send you a copy of the resolution which was passed at the meeting of the presidents of the Vanderbilt Lines on April 29, with regard to the equipment of freight cars with air brakes and self-couplers.

It was not thought best to specify any special make of self-couplers, but to leave the roads free to experiment with different couplers of the vertical type, it being the understanding that any coupler adopted by any one company should be such as would inter-change with other couplers of a vertical type which any of the other Vanderbilt roads might decide to adopt.

I think this is a great stride in the direction of uniformity and am satisfied, that if carried out, will soon result in the doing away of much of the trouble we have had in

the past with the question of couplers and brakes. Yours truly.

H. B. LEDYARD, President.

Resolution, re-quipment of freight cars with air brakes and self-couplers, passed unanimously at presi dent's meeting held April 29, 1890.

Present, Messrs. C. Vanderbilt, Depew, Hayden, Webb, Newell, Ledyard, Caldwell Ingazis, Laying and Bliss.

Resolved, That all freight cars hereafter built by the roads in the Vanderbilt system, and by the Boston & Albany, shall be equipped with the air brake; and that all colored line and local box and stock cars of \$4 feet in length and upwards, now in service on said roads, shall have the air brake attached as fast as they come into the shop for repairs; and that all such cars so built or repaired shall be also equipped with a self-coupler of what is known as the vertical plane type.

CHICAGO & NORTH WESTERN RAILWAY, ) OFFICE OF THE GENERAL MANAGER, Chicago, March 6, 1890.

DEAR SIR—Referring to your circular letter of March 1, in reference to automatic couplers for freight cars.

I do not wish to refer to any of the couplers named in your list, except those that I have had actual experience with. The only one that we have used is the Blocker. A large number of our ore cars were equipped with this bar, which, since a bar of the "Janney" type has been determined as the standard, is of no value. I am taking it off

of all our ore cars, and am now equipping all of our large ore cars with Westinghouse Automatic Brake and Janney Couplers. We shall have about eighteen hundred (1800) cars so equipped and in use in our ore traffic in the State of Michigan after April 1.

The only obstacle in the way of a compliance with the laws of Michigan which you refer to as going into effect on January first, next, is the expense of fitting up the entire equipment of any one road before that time. It is an impossibility for us to do it even if we could bear the expense. You can very easily see what this would be to equip twenty-seven thousand (27,000) freight cars at the expense of from twenty-six to twenty-seven dollars per car. There are also a large number of foreign cars, the fitting of which we could not control. In addition to the ore cars I have named above we are having five hundred (500) new box cars built, which are also equipped with Westinghaving five numerous constructed hereafer in this manner.

Very truly,

J. M. WHITMAN, having five hundred (500) new box cars built, which are also equipped with Westinghouse Air Brake and Automatic Couplers of the Janney make, and it is our intention to

Mr. John T. Rich, Commissioner of Railroads, Lansing, Michigan. General Manager.

GRAND RAPIDS & INDIANA RAILBOAD COMPANY, OFFICE OF PRESIDENT AND LAND COMMISSIONER, Grand Rapids, Mich., March 13, 1890.

John T. Rich, Railroad Commissioner, Lansing, Mich:

DEAR SIE—I have your favor of the 1st inst relative to the withdrawal of several automatic car couplers in use one Michigan roads, in accordance with the requirements of the law, and the adoption of the vertical plane couplers in their stead. I think the ides is a good one, and our company will be very glad to comply. I would add to the list already approved the "Hinson" car coupler, Rockery Building, Chicago.

I know of no reason why all roads should not be permitted or required to use the

styles named whenever it is necessary to take cars to shops for repairs or new ones are built, or when the old material ceases to be of value. We have been doing this for some time past, and at present have over three hundred equipped with Janney Couplers. At the time of the selection, this company recommended and urged the Janney but both then and afterwards was refused permission to use it, consent only having been given at a comparatively late period.

Yours very truly,

W. O. HUGHART, Pres't and General Manager.

FLINT & PERE MARQUETTE RAILROAD, ) SUPERINTENDENT'S OFFICE. East Saginaw, Mich., March 22, 1890.

SAMPORD KEELER, Superintendent.

Hon. John T. Rich, Commissioner of Railroads, Lansing, Mich.:

Drab Sir—Answering your circular of March 1, in regard to draw bars, saying: "In
1886 my predecessor, Hon. Wm. McPherson, under the provisions of the law, selected
seven so-called automatic car couplers from which railroad companies were to select
some pattern for use on the r respective roads," would say that this company has adopted
the "Marks" draw bar, and after several years' use of the same, we find that, while the
draw how works years estimatorily in every way, it is not expine to be the one generally draw bar works very satisfactorily in every way, it is not going to be the one generally adopted by railroads, but that the "Janney" type is the one, and we are now putting on the "Janney" type and testing the "Thurmond," "Gould," and "Hinson" Couplers. These are all automatic with each other, and there is not much difference in their respective merits.

I think it would be well to have all automatic draw bars or couplers withdrawn excepting the vertical plane, which would include the "Janney" type and the "Miller"

or "Cowell."
We have 200 of the "Gould," about 50 of the "Thurmond" couplers in use. We would also like to have permission to continue the use of the "Marks" draw bar, as we have a large number of them on cars, and they are working satisfactorily.

Youys truly, SANFORD KEELER,

Superintendent.

CHICAGO & WEST MICHIGAN RAILWAY, DETROIT, LANSING & NORTHERN RAILBOAD, SAGINAW VALLEY & St. LOUIS RAILBOAD, Grand Rapids, Mich., March 6, 1890.

John T. Rich, Esq., Commissioner of Railroads, Lansing, Mich.:

Dear Sir—Your circular of March 1, relative to car couplers, has just been received. I will take an opportunity to look into this question, as affecting the two roads under my

management, within a day or two, and advise you more fully.

I have had some experience with the Gould coupler, which has been very satisfactory indeed. It is of the Master Car Builder's type, and possesses features, that, in my opinion, make it superior to even the Janney and Dowling. If you have not seen it, with your permission I will send you a sample.

Yours truly CHAS. M. HEALD, General Manager.

CHICAGO & WEST MICHIGAN RAILBOAD, Muskegon, Mich, April 6, 1890.

A. D. HART, General Yard Master.

John T. Rich, Esq., Commissioner of Railroads:

DEAR SIE—Yours asking my views regarding the different couplers at hand and I will say we have given several of them very severe tests in this yard. This company had several of their cars equipped with the Hinson Coupler and that company wished we should give them the hardest test we could; we did so by throwing them together 10 to 12 miles per hour and they stood the test and coupled each time.

Now I can say in my judgment the Janney and Hinson coupler is the best in use and

they work well together, and hope the will be adopted.

Yours very truly,

A. D. HART, G. Y. M.

Toledo, Ann Arbor & North Michigan Railway Co.,) GENERAL OFFICE, Toledo, Ohio, March 5, 1890.

Hon. John T. Rich, Lansing, Commissioner R. R.:

My Drag Sir-I have received a copy of your circular letter of the 1st inst. On the part of this company I request that your predecessor's circular issue in 1886, relative to Automatic car couplers be modified. Our experience with the Blocker, the Marks, the McCree and the Ames, has forced the conclusion that an additional element of danger is added by their use.

It is impracticable in my judgment to make the law of '86 operative—the equipment of the State could not be changed in the nine months succeding April 1, next.

I do not know that the Janney type is a practical success on freight equipment. have noticed that the Pennsylvania system—its officers were the most urgent having the pattern adopted—have had several thousand cars built and equipped with the link and pin coupler during the past six months.

So long as there seems reasonable ground to question the final solution of this problem, I do not think it would expedite a conclusion to compel all railroads to replace

their present patterns when cars are built or repaired.

The class of traffic in which this device is most necessary and where the utility of a pattern can be best demonstrated is the stock, dressed beef and time freight cars.

If stock cars could be equipped with this pattern of draw bar, they are less likely to become separated than any other and less likely to leave the State and if it proves itself capable and desirable on trial, then applied to dressed beef, charcoal and like classes of cars I would consider that we were on the road to a solution of our difficulty.

On the other hand if we must equip a car today which is likely to be in Georgia next week and not be returned for six months, we would delay an intelligent solution of a question which I assure you is much oftener in the minds of those who have charge of the railroads of your State than your legislators, citizens or your State representatives

in your office.

My suggestion is: First, The execution of the present law is impracticable. Second, It should be amended in such manner that the companies in your State should be a share of the second dragged beef with the form of compelled to equip their local cars—stock, charcoal, dressed beef, with the form of coupler which now promises best results, the Janney.

Respectfully; H. W. ASHLEY.

PENNSYLVANIA RAILROAD Co., OFFICE OF THE GENERAL MANAGER Philadelphia, Pa., March 29, 1890.

233 South Fourth Street.

Mr. John T. Rich, Commissioner of Railroads, Lansing, Michigan:

DEAR SIR—Replying to your inquiry of the 20th instant, I have to say that our management have been for a long time in favor of the vertical hook coupler, and our experience thus far has but strengthened this conviction, notwithstanding all the discussions that have been had, to some of which you refer, in reference to this form of coupling. You will appreciate that with such a large equipment as our own the expense of changing would be enormous, but we are going ahead just as rapidly as we feel we can afford and equipping cars with this form of coupler. We shall probably add several thousand during the present year.

We believe the Janney type of coupler is the best known.

Yours truly . CHÁS. T. VEIGH, General Manager.

WOLVERINE DIV. 182, ORDER OF RAILWAY CONDUCTORS. Jackson, Mich., April 16, 1890.

John T. Rich, Commissioner of Railroads, Lansing, Mich:

DEAR SIE-At a regular meeting, held April 14, your circular of March 1, was presented and duly discussed, and would say that the sentiments expressed therein are most heartily concurred in by Div. 182, Order of Railway Conductors, and we further believe that the action as outlined in your circular is the best that can be done under existing circumstances. Assuring you of our hearty co-operation, we are are yours

Very truly,

A. SWIDENSKY, Sec. Div. 182.

311 Oak St., Jackson, Mich.

ORDER RAILWAY CONDUCTORS,
BATTLE CREEK DIVISION, No. 6,
Battle Creek, Mich., April 14, 1890.

To the Hon. John T. Rich:

Your circular of March 1 before Division No. 6. The sense of the meeting was that the Janney coupling was the best on the list, but that there was room for lots of improvement, and if there cannot be a uniformity in some, that the No. 3 Standard Draw Bar is far preferable to any such as the C. & G. T., uses. Hoping that there may be something brought about that will lessen the danger of trainmen, we remain,

Yours in respect,

W. J. MILLER, Secretary-Treasurer No. 6.

SWITCHMEN'S MUTUAL AID ASSOCIATION, OF NORTH AMERICA, OFFICE OF LODGE No. 13, Detroit, April 12, 1890.

John T. Rich, Esq.:

DEAR SIE—In reply to yours of the 20th, I will say that the draw bar question has been thoroughly discussed by the members of the Detroit Lodge, No. 13, Switchmen's Mutual Aid Association of North America, and I am instructed to write to you that none of the "patent" draw bars mentioned in your circular are approved of. The only draw bar favored by our lodge is the "Safford Bar" without any improvements on it. Hoping this will prove satisfactory, I memain

Yours fraternally,
FRANK D. WOLFE,
Recording Secretary.

BROTHERHOOD OF RAILROAD BRAKEMEN, WEST BAY CITY LODGE No. 147,

March 30, 1890.

Mr. John T. Rich, Commissioner of Railroads:

I wish to say in behalf of the trainmen of the Mackinaw division of the M. C. R. R. that the withdrawal of all couplers except the Janney and Dowling, or any other that may work in unity with them, should be done, and that all freight cars should be equipped with the Janney or Dowling, or any other of same pattern, and more especially our log train cars, as they are the worst trains to couple and handle we have, and the most dangerous.

Yours truly, MYRON C

MYRON C. GARDNER, West Bay City, Michigan. BROTHERHOOD OF LOCOMOTIVE FIREMEN,
LODGE No. 84,
Battle Creek, Mich., April 10, 1890.

C. B. Conger, Esq., Mechanical Engineer:

Dear Sir—A note dated March 31, from Mr. Rich, Commissioner of Railroads this State, received, and contents of accompanying circular carefully noted. Individually, have not given couplers enough thought to be able to give any advice that would be of practical value. Was talking to a conductor a few days ago, what he considered the best coupler. He said the Janney was about the best, and it would couple with all others. Five minutes later a brakeman got his arm caught between buffers of a G. R. & I. and a N. Y., L. E. & W., one more instance of the necessity of that law. All those I have talked with, conductors and engineers, say some of the patent couplers are a nuisance, and that system or uniformity ought to be studied. The best is the cheapest. Will write you again if I can give you anything worth hearing.

I am yours repectfully,

JOHN TIGHE.

Fort Gratiot, Mich., March 28, 1890.

John T. Rich, Esq., Railroad Commissioner, Lansing, Mich:

DEAR Sir.—The Brotherhood of R. R. Trainmen in session, March 23, considered the question in this circular. The lodge consisting of some 58 practical railroad men, without a dissenting vote, recommended that the draw bars named should be withdrawn from use, and that the Janney, Dowling or Skinner type are the only ones tried that come near meeting the intention and reqirements of the law, and they instructed me to notify you of their opinions.

I am respectfully yours, A. W. LOVELAND, Master St. Clair Lodge No. 241, B. of L. T.

OFFICE OF THE COMMISSIONER OF RAILROADS, Lansing, Mich., May 20, 1890.

To General Managers and Superintendents of Michigan Railroads:

GENTLEMEN—Inasmuch as the use of driver-brakes upon locomotives, and the heating of passenger cars have been the subject of serious consideration by the railroad managements of the country during the last two years, and which in this State especially, has resulted in important legislation connected therewith, I have thought it desirable as a matter of general information to publish in addition to the foregoing order with regard to freight car couplers, the following:

1—Copy of circular issued from this office January 8, 1890, with regard to passenger cars and inhibiting the use of certain classes.

2-Act No. 182 Session Laws of 1889 with regard to the use of power brakes upon locomotives and cars, in certain cases on and after October 1, 1890.

3-Act N. 211 Session Laws of 1889, providing for the use of safety heaters upon the railroads in this State on and after November 1, 1890.

The results from experiments thus far made by our railroad companies in different methods of heating cars, lead to the belief that the solution of that uncertain problem will not be much longer dalayed, while the progress already made in complying with our law with regard to power brakes, indicates that its provisions have the uniform approval of our railroad managements.

Very respectfully yours, JOHN T. RICH, Commissioner of Railroads. STATE OF MICHIGAN, Office of Commissioner of Railroads, Lansing, Mich., Jan. 8, 1890.

To General Managers and Superintendents of Railroads:

Owing to the fact that no system of heating cars has yet proven entirely satisfactory and that the weather during the winter of 1888 and 1889 was so mild that no real tests were possible as to the efficiency of methods of heating not previously tested, this department determined to adopt a conservative course, and avoid to some extent the experiences of the winter 1889 and 1880. Railroad managers were informed that the better class of hot water heaters would not be ordered out during the present winter. But it has recently come to the knowledge of this department that in some instances cast iron stoves usually used with the door in the side, open, are being used in cars forming part of passenger trains. In some instances they are cars belonging to foreign companies which run through this State, but as the practice is in open violation of the letter and spirit of the law, they must not be used in any oar forming part of a passenger train under any circumstances. In addition to this a class of frail heaters, of which the Spears is a fair representative, is still used in some of the cars now running in this State, which will not stand any considerable shock without permitting fire to escape, and no time should be lost in replacing them with safer heaters. Heaters of the McEwan type which are constructed substantially, but are rendered dangerous by the door being left open, should be removed as soon as possible, and meanwhile all companies having them in use, in case of accident therefrom, will be held to strict accountability under the provisions of the law. When doubt exists as to what heater should be put in, it would seem that any company would be safe in adopting the Baker Hot Water Heater on which there is no patent, and which can afterwards be inclosed in a steel closet, or the pipes utilized for steam, or the water in the pipes heated by steam while the heater can be used in emergencies. Your co-operation is respectfully urged while the heater can be used in emergencies. Your co-operation is respectfully urged in making the heating of cars as safe as possible pending the perfection of some system or systems of heating cars which may properly receive the approval of this department, and in which you have confidence enough to feel justified in adopting for use on your respective lines.

Yours respectfully, JOHN T. RICH, Commissioner of Railroads.

### [Act No. 182, Session Laws of 1889.]

AN ACT to amend Section one of Article four of Act No. 198, Session Laws of 1873, as amended by Act No. 98, Session Laws of 1875, providing for the use of Air Brakes on Railroad Trains.

SECTION 1. On and after the thirty-first day of October, eighteen hundred and seventy-three, [no] on regular passenger trains shall be run in this State without an air brake or some equally effective devices for controlling the speed of the trains, to be approved by the Commissioner of Railroads, which may be applied by the engineer to each car composing the train, and which shall at all times be kept in effective condition of repair and ready for use at the discretion of said engineer. And after the first day of October, one thousand eight hundred and ninety, all locomotive engines and tenders used on the railroads [of] in this State shall be equipped with a suitable driver and tender brake of some pattern to be approved by the Commissioner of Railroads, which said device shall be at all times maintained in effective condition of repair and ready for use, and from and after the said last mentioned date [no] on mixed trains, [composed] composing partly of passenger and partly of freight cars, on which the air brakes hereinbefore mentioned, provided and required, cannot be applied by the engineer to each passenger car which shal be run in this State for the transportation of passengers, unless the engine and tender on such train shall be equipped with a suitable driver and tender brake, as hereinbefore provided; and every company, person or corporation, owning or operating a railroad in this State, which shall permit any trains to be run upon such roads without being equipped with brakes, as provided for in this section, shall forfeit for every train so run the aum of one hundred dollars, for the recovery of which such company, person or corporation shall be liable in an action brought brakes, as provided for in this section, shall forfeit for every train so run the aum of one hundred dollars, for the recovery of which such company, person or corporation shall be liable in an action brough the brakes, as provided for in this section, shall forfeit for every train so run the sum of one hundred dollars, for the re

### [Act No. 211, Session Laws of 1889.]

AN ACT to provide for the better protection of lives of passengers and employés on railroad trains.

AN ACT to provide for the better protection of lives of passengers and employés on railroad trains.

Shotton 1. The People of the State of Michigan enact, That on and after the first day of November, eighteen hundred and eighty-nine, every railroad company owning or operating any railroad wholly or partly within the State, shall make some effective provision against the burning of cars in which passengers are carried, or of cars which form part of passenger trains, in some one or more of the following, or other equally effective, methods: By generating the heat for warming the cars outside and independent of said cars, or by use of heaters in the care, so constructed, that in case of accident, it will be practically impossible for the first to escape from the stove or bester so as to set first to the cars, or provided with some automatic or quickly and easily operated provision for extinguishing fire, and when the heat is generated outside of the cars, heaters constructed as provided for in this section may by retained within for use in case of emergencies: Provided, That the provisions of this section shall not apply to caboose cars on freight trains.

REO. 2. Ne device shall be adopted for general use until approved by the commissioner of railroads, and he shall have the power, and it is hereby made his duty to order any stoves or heaters removed, which, in his judgment, are unsafe in case of accident. And he is hereby empowered to use such reasonable means to provide for carrying out the spirit of this law to promote the safety of passengers and employée in railway cars, as the condition of the road and experience in the use of the various methods of heating have demonstrated to be practicable and necessary.

BEO. 3. The provisions of this act may be enforced by any circuit court of this State in any county through which the railroad of any company refusing to comply with such provisions may run, upon the application of the Commissioner of Railroads under such, penalty as the court may determine, of not less

# OFFICE OF THE COMMISSIONER OF RAILROADS, A Lansing, Mich., June 25. 1890.

To General Managers and Superintendents of Michigan Railroads:

In order to secure more reliable information at this office with regard to the condition and service of the interlockers in use at the different railroad crossings in the State, it is deemed desirable to have monthly reports of the same from both companies whose trains pass through such interlocking.

Commencing with the present month, therefore, you will furnish reports to this office, of the condition and service of every interlocker in this State used by your Company, whether responsible for such condition and service, or otherwise, as prescribed by the instructions printed upon the blanks which will be sent you for the purpose of such reports.

Very truly yours,

JOHN T. RICH, Commissioner of Railroads.

# STATE OF MICHIGAN, OFFICE OF THE COMMISSIONER OF RAILBOADS.

To General Managers and Superintendents of Railroads in the State of Michigan:

Application having been made by J. D. Hawks, Chief Engineer of the Michigan Central Ralroad Company for the official approval of the Commissioner of Railroads, of the National Surface Cattle Guard, for use on the said Michigan Central Railroad, pursuant to the provisions of Section 15, Act No. 198, of the Session Laws of 1873, and acts amendatory thereof, as amended by Act No. 26, Session Laws of 1889. And the Undersigned, Commissioner of Railroads in and for said State aforesaid, having made a careful examination of said cattle guard, and become fully satisfied of its practical value, and that it meets the requirements of the laws of this State, in accordance with the true spirit and intent thereof.

Therefore, The said National Surface Cattle Guard is hereby approved, and authorized

to be used upon all railroads in this State, from and after the date hereof.

In Witness Whereof, I have hereunto set my hand, and caused TL 8.] the seal of the department to be affixed at the capitol in the city of Lansing, this 24th day of July, A. D. 1890.

> JOHN T. RICH. Commissioner of Railroads.

STATE OF MICHIGAN, OFFICE OF THE COMMISSIONER OF RAILBOADS, Lansing, Mich., November 15, 1890.

To		
General		
Of the	T 11	Co.

DEAR SIR-

Your attention is respectfully called to the following Proviso in Section 1, of Act No. 147, Laws of 1885, as amended by Act No. 88, Session Laws of 1887, and entitled "An act to provide for the introduction and use on all cars owned and operated by any railroad company or other corporation doing business in this State, of some form of automatic car-coupling, by which all cars may be coupled and uncoupled without the necessity of the brakeman or any other person passing between the cars," to wit:

"Provided further: That no freight car shall be run upon any of the railroads within this State, after the first day of January, eighteen hundred and ninety-one, unless furnished with Safety Couplers, as provided by this act."

It is hardly possible that all cars of Michigan Companies will be fully equipped with approved safety couplers by the date provided for in the Act, and certainly it is too much to expect that all the cars of foreign corporations will be so equipped. But there is a class of cars on which the dead-woods or buffers extend both above and below the draw-heads, and which is particulary dangerous to life and limb of train men when making a coupling.

Before issuing a formal order in regard to this important matter, I would be pleased to have your views in writing as to the propriety of requiring all cars of the above-mentioned character to be supplied with the Master Car Builder's type of coupler after

the first day of January next.

The penalty under the law can only be enforced upon the application of the Commissioner of Railroads, but with this specially dangerous class of cars in disuse, the Commissioner would, considering the magnitude of the undertaking involved in the equipment of all the cars in the United States and Canada with new draw-bars, feel justified in a less exacting and absolute compliance with the law.

An early reply is respectfuly asked as it is my intention to take further action with regard to the matter the first week in December next, unless, meanwhile, sufficient

grounds are shown to exist why the same would not be practicable or desirable.

Very truly yours,

JOHN T. RICH. Commissioner of Railroads

# OFFICIAL ORDERS

ISSUED BY THE COMMISSIONER OF RAILROADS OF THE STATE OF MICHIGAN FOR THE YEAR ENDING SEPTEMBER 20, 1890.

### 1889.

- 1. Nov. 16. To William J. Spicer, general manager of the Chicago & Grand Trunk Ry. Special order to erect a residence crossing for one Henry Fall near the village of Birmingham within ten days from date.
- 2. Nov. 23. To H. W. Ashley, general manager of the Toledo, Ann Arbor and North Michigan Railway.

Special order to station and maintain a flagman at crossing of Barnard street in the village of Howell within three days from date.

3. Nov. 22. To the general managers of the Chicago & West Michigan Ry. and the Flint & Pere Marquette Railroad Companies.

Special order approving the interlocking and derailing device at the crossing of the two roads in the county of Lake.

4. Nov. 22. To the Grand Rapids & Indiana and the Cadillac & Northeastern Railroad Companies.

Special order to erect an interlocking and derailing device of the second class at the crossing of the two roads near Cadillac within sixty days from date.

- 5. Nov. 22. To the Grand Rapids & Indiana Railroad Co. and the Smith Lumber Co. Special order approving the interlocking device at the crossing of the two roads near Kalkaska.
- 6. Nov. 27. To the Michigan Central Railroad Lessee of the Detroit & Bay City Railroad and the Toledo, Saginaw & Mackinaw Railroad Co.

Special order to station a flagman at the crossing of Thompson street in the city of East Saginaw.

- 7. Dec. 20. To J. B. Mulliken, vice president and general manager of the Chicago & West Michigan Railway Company.

  Special order to station a flagman at the crossing of Fulton street in the city of
- Special order to station a flagman at the crossing of Fulton street in the city of Grand Haven.

  8. Dec. 24. To the Michigan Central Company operating the Detroit & Bay City

Railroad, Lake Shore and Michigan Southern Railway Lessee of the Detroit, Monroe & Toledo Railroad, and the Chicago, Detroit & Canada Grand Trunk Junction Ry.

Special order to erect and maintain safety gates at the crossing of Twelfth street;
Lincoln and Second avenues in the city of Detroit.

- 9. Dec. 24. To the Lake Shore & Michigan Southern Ry. Co., operating the Detroit, Monroe & Toledo Railroad, and the Chicago, Detroit & Canada Grand Trunk Ry. Co. Special order to erect and maintain safety gates at the crossing of Scotten avenue in the city of Detroit.
- 10. Dec. 24. To the Michigan Central Railroad Co. operating the Detroit & Bay City Railroad, and the Chicago, Detroit & Canada Grand Trunk Junction Ry. Co.

Special order to erect and maintain safety gates at the crossing of Milwaukee avenue in the city of Detroit.

### 1890.

11. Jan. 10. To the general superintendents of the St. Louis, Sturgis & Battle Creek and the Cincinnati, Jackson & Mackinaw Railroad Companies.

Special order approving the interlocking and derailing device at the crossing of the two roads near the city of Battle Creek.

12. Jan. 11. To the Cincinnati, Saginaw & Mackinaw, lately the Toledo, Saginaw & Mackinaw Railroad Co., and the Flint & Pere Marquette Railroad Company.

Special order approving the second class interlocking and derailing device at the west side branch of the F. & P. M. R. R., and safety gates at the spur track crossing in the city of East Saginaw.

13. Jan. 11. To the Cincinnati, Saginaw & Mackinaw, lately the Toledo, Saginaw & Mackinaw R. R. Co., and the Michigan Central Railroad Company operating the Detroit & Bay City and the Jackson, Lansing & Saginaw Railroads.

Special order approving the safety appliances at the crossing of the Saginaw branch of the Detroit & Bay City and also of certain spur tracks diverging from the main line of the Jackson, Lansing & Saginaw Railroad at different points in the city of East Saginaw.

14. Jan. 29. To the general managers of the Grand Rapids & Indiana Railroad Company and the Chicago & West Michigan Railway Company.

Special order approving the interlocking and derailing device at the crossing of the main and side tracks of the two roads in the city of Grand Rapids.

15. Feb. 11. To the Cincinnati, Saginaw & Mackinaw Railroad Company, and the Michigan Central Rd. Lesses of the Jackson, Lansing & Saginaw Railroad.

Michigan Central Rd. Lessee of the Jackson, Lansing & Saginaw Railroad.

Special order approving the interlocking and derailing device at the crossing of the two roads at Mershon's lumber yard, North Saginaw.

16. Feb. 13. To the Toledo, Ann Arbor & North Michigan Ry. to the Flint & Pere Marquette Railroad Companies.

Special order approving the interlocking and derailing switch at the crossing of the two roads in the village of Cadillac.

17. Feb. 28. To the Detroit, Grand Haven & Milwaukee Railway, Toledo, Ann Arbor & North Michigan Railway and the Cincinnati, Saginaw & Mackinaw Raildroad Companies.

Special order to station and maintain a flagman at the Main street crossing and an alarm bell at the Oak street crossing of the three roads in the village of Durand.

18. Feb. 28. To Henry B. Ledyard, president and general manager of the Michigan Central Railroad Company, controlling and operating the Michigan Air Line Railroad, and W. J. Spicer, general manager of the Chicago & Grand Trunk Railway Company.

Special order to erect and maintain an interlocking and derailing switch at the crossing of the two roads at the village of Cassopolis.

19. March 7. To the Grand Rapids & Indiana Railroad Company and W. W. Cummer, manager of the Cadillac & Northeastern Railroad Company.

Special order approving the interlocking and derailing apparatus at the crossing of the two roads north of the city of Cadillac.

20. March 12. To P. P. Wright, general superintendent of the Lake Shore & Michigan Southern Railway Company.

Special order approving the interlocking and derailing device at its crossing of its main line with the Fort Wayne & Jackson branch near the village of Jonesville.

21. April 12. To the Lake Shore & Michigan Southern Railroad Company, controlling and operating the Kalamazoo & White Pigeon Railroad, and the Chicago & Grand Trunk Railway Company.

Special order approving the interlocking and derailing device at the crossing of the two roads in the village of Schoolcraft.

22. April 19. To the general managers of the Cincinnati, Saginaw & Mackinaw Railroad Company and the Michigan Central Railroad Company operating the Jackson, Lansing & Saginaw Railroad.

Special order approving the interlocking switch and signal system at the Lafayette street crossing of the two roads in the village of Salzburg.

23. April 19. To the general managers of the Michigan Central Railroad Company operating the Bay City Belt Line Branch of the Detroit & Bay City Railroad, and the Flint & Pere Marquette Railroad Company.

Special order approving the interlocking and derailing service at the crossing between

Howard street and Michigan avenue in Bay City.

24. April 29. To the general managers of the Cincinnati, Saginaw & Mackinaw Railroad, Flint & Pere Marquette and Michigan Central Railroad Companies, operating the Jackson, Lansing & Saginaw Railroad.

Special order approving the interlocking and derailing device at the crossing of the

three roads on the west side of Saginaw river at Mershon.

25. April 30. To the Fort Street Union Depot Company and the Michigan Central Railroad Company.

Special order relative to the construction of the proposed viaduct of the Fort Street Union Depot Company along the line of River street in the city of Detroit.

26. May 1. To Norman Beckley, general manager of the Cincinnati, Wabash & Michigan Railway Company.

Special order to erect and maintain safety gates at the crossing of Main and Front

streets in the city of Niles.

27. May 20. To the general managers of the Wabash Railroad Company, the Lake Shore & Michigan Southern Railway Co. controlling and operating the Detroit, Monroe & Toledo, and the Michigan Central Railroad Company controlling and operating the Toledo, Canada Southern & Detroit Railroad.

Special order to erect and maintain an interlocking and derailing switch and signal

system at the crossing of the several roads at or near the town of Delray.

28. May 20. To H. B. Ledyard, general manager of the Michigan Central Railroad Company, H. C. Potter, vice president and general manager of the Flint & Pere Marquette and J. T. Gardner, general manager of the Cincinnati, Saginaw & Mackinaw Railroad.

In the matter of the division of the cost of construction and the expenses of main-

tenance and operation of the interlocking switch at Mershons, Saginaw.

29. June 17. To H. W. Ashley, vice president and general manager of the Toledo, Ann Arbor & North Michigan Railway Co.

Special order requiring certain renewals and repairs to the track between Leland and

South Lyons within sixty days from date.

30. June 17. To H. W. Ashley vice president and general manager of the Toledo Ann Arbor & North Michigan Railway Company.

Special order to rebuild the entire right of way fence between the south line of Oakland County and the village of South Lyons.

31. June 18. To H. W. Ashley, vice president and general manager of the Toledo, Ann Arbor & North Michigan Railway Company.

Special orders to rebuild the entire right of way fence between Leland station and the north line of Washtenaw county.

32. June 18. To Charles M. Heald, general manager of the Detroit, Lansing & Northern, and William J. Spicer, general manager of the Chicago & Grand Trunk Railway Company.

Special order approving the interlocking and derailing switch at the crossing of the two roads at Trowbridge station.

33. July 15. To the Chicago & Grand Trunk Railway Company, the Detroit, Grand Haven & Milwaukee, Toledo, Ann Arbor and North Michigan Railway Company and the Cincinnati, Saginaw & Mackinaw Railroad Company.

Special order to erect and maintain an interlocking and derailing switch at the

crossing of the several roads in the village of Durand.

34. July 12. To H. B. Ledyard, president and general manager of the Michigan Central Railroad, controlling and operating the Michigan Air Line Railroad, and W. J. Spicer, general manager of the Chicago & Grand Trunk Railway Company.

Special order approving the interlocking and derailing device at the crossing of the

two roads at Cassopolis.

35. July 21. To William J. Spicer, General Manager of the Detroit, Grand Haven & Milwaukee Railway Company.

Special order to erect and maintain safety gates at the crossing of Taylor, Quinby and Caledonia streets in the city of Grand Rapids.

36. July 24. To General Managers and Superintendents of Railroads in the State of Michigan.

General order approving the National Surface Guard for use upon all railroads in the State of Michigan.

37. July 31. To William J. Spicer, general manager of the Chicago & Grand Trunk Railway Company.

Special order to erect and maintain a good and sufficient residence crossing over the tracks at Elba station, Lapeer county, for the use of Milo M. Lyons.

38. July 31. To Charles M. Heald, general manager of the Chicago & West Michigan Railway Company.

Special order to erect and maintain safety gates at the crossing of west Fulton street in the city of Grand Rapids within sixty days from date.

39. Sept. 2. To the Toledo Ann Arbor & North Michigan Railway Company operating the Toledo Ann Arbor & Lake Michigan Railroad, Grand Rapids & Indiana Railroad Company and the Cadillac & North Eastern Railroad Company.

Special order to erect and maintain safety gates at the various crossings of the sev-

eral roads in the city of Cadillac.

40. Sept. 3. To the Chicago & West Michigan Railway Company and the Manistee & North Eastern Railroad Company.

Special order approving the interlocking and derailing device at the crossing of the two roads in Manistee county.

41. Sept. 8. To H. W. Ashley, general manager of the Toledo Ann Arbor & North Michigan Railway Company.

Special order substituting an electric bell for the flagman previously stationed at the Barnard street crossing in the village of Howell.

42. Sept. 19. To the Michigan Central Railroad Company operating the Detroit & Bay City, and the Flint & Pere Marquette Railroad Companies.

Special order approving the interlocking and derailing device at the crossing of the

two roads in Bay City.

### EXPENSE ACCOUNT

of the Department From October 1, 1889, to September 30, 1890.

Express charges, distribution of books and blanks Incidentals Maps of Michigan	18 291	70 00
Office, library, books, reports and journals Postage Printing add binding	125 369	00 88
Special inspectionsStationery and paper for blanks	296 130	71 76
	847	

### . OPINION OF

Atkinson, Carpenter, Brook and Haigh, (Judge Isaac Marston of Counsel), Upon the Corporate Status of the Lake Shore & Michigan Southern Railroad Company.

In coming to a consideration of the Lake Shore & Michigan Southern Railway we reach certain perplexing questions, and yet an adherence to the fundamental rules which have been laid down by the courts will enable us to attain a satisfactory conclusion.

Before beginning we will say that in three cases has this charter been before our Supreme Court, to wit:

People vs. M. S. & N. I. R. R., 4 Mich., 398. M. S. & N. I. R. R., vs. Auditor General, 9 Mich., 448. L. S. & M. S. R. R., vs. The People, 46 Mich., 193.

None of these cases, as we understand them, has any direct bearing on the question we are now considering. They are cases somewhat similar to,

Tennessee vs. Whitworth, 117 U.S., 129.

And as such we will not further consider them.

The original charter of the Michigan Southern Railroad was granted in 1846 and, like the Michigan Central charter gave authority to fix tolls, etc., and at,

Sec. 31 p. 166.

limited the tax to a certain percentage on the capital stock. Sec. 37 p. 168 reads,

"The State reserves the right at any time after thirty years from the passage of this act, by a vote of two-thirds of each branch of the legislature to alter, amend or repeal the same: *Provided*, The said company shall be compensated by the State-for all damages sustained by reason of such alteration, amendment or repeal."

By act number 138 of the laws of 1855, R. R. Laws p. 176,

A consolidation was authorized between the Michigan Southern and the Northern Indiana Railroads and a new corporation was authorized to be formed and all the franchises, property, powers, and privileges enjoyed by the old Michigan Southern Roads were conferred upon the new road, and it was provided further in section 3 that "The said corporation so to be organized, by virtue of this act, shall continue subject to the same rate of tax as though such consolidation should not take place."

We consider that this act is clearly unconstitutional as being an attempt to create a

corporation by a special act and so in direct violation of,

Mich., Const. Art. XV, Sec. 1.

That the new road is formed by the consolidation of previously existing roads does not in our opinion change the fact that a new corporation is formed. The constitutional provision makes no exception in favor of corporations formed out of previously existing ones. Nor do I think that section 8 of the same article authorizing amendments to special charters theretofore granted would authorize this. This is not an amendment to the Michigan Southern charter merging the Northern Indiana into it. It operates as a disolution of both of the old roads and the constitution of an entity which before had no existence. The language of the consolidation act, referring to the "new corporation" the "new company" with "its capital stock," separate and distinct from the old capital stock of the old companies—the distinction between stockholders of the old companies and of the new company indicates clearly that this act is different from a merger of one into the other, as was the case in an act relative to the Detroit & Pontiac road which we shall hereafter consider, or as was the case involved in

Central Railroad vs. Georgia, 92 U.S., 665.

Almost exactly this question under a constitutional provision practically identical arose in Ohio and the court had no hesitation in reaching the conclusion above indicated.

Atkinson vs. Railroad, 15 O. St., 21.

However, the extreme reluctance of a court to overthrow a law which has been acquiesced in so long by all parties has been tacitly approved by the court itself in various tax cases above cited, and upon the faith of which large investments have been made would lead, us to feel considerable doubt as to the possibility of inducing the courts now to adopt this view—for courts often strain the constitution where great damage would be worked by a vigorously correct decision and where so to decide would work a great apparent injustice.

See Attorney General vs. Joy, 55 Mich.

But even if this whole consolidation were illegal it is of little importance, since in any view of the case the old Michigan Southern franchise was abandoned, and no doubt has perished from non-use. In view of subsequent events, this question has merely a speculative interest, and we shall not discuss it here at greater length.

We are then, the more easily led to yield this point since, on other grounds, the pres-

ent Lake Shore & Michigan Southern Railway can be brought under general laws.

In 1855 a general law was passed (Act No. 82), at which sections 50-52 provides for consolidations of previously existing railroads.

In 1869, while this act was still in full force, the Michigan Southern & Northern Indiana, and the Lake Shore Ry. Co. consolidated under this general law and in 1879 another consolidation was had between the last named company and the Buffalo & Erie R. R. Co., retaining the name of the former company. This last action was taken under 1 Howell's statutes, Secc. 3343-4.

These acts are substantially similar in conferring upon the company formed by such consolidation "all the powers, rights and franchises conferred upon such two or more corporations, and shall be subject to all the restrictions and perform all the duties imposed by the provisions of their respective charters or laws of organization, not inconsistent with the provisions of this act." And various other expressions are contained in them to the same import.

But the essential point is this:—the company formed by this new consolidation has its origin at the date of such consolidation and all its powers, rights and privileges must

be measured and controlled by the laws and constitution then in force.

Thus in 1855, 1869 and in 1879, we find the constitution of Michigan provides that corporations may be formed under general laws \* \* \* all laws passed in pursuance of this section may be altered, amended or repealed."

Mich. Const. Art. XV, Sec. 1.

This general railroad law under which these last consolidations were effected and from which the present Lake Shore & Michigan Southern Railroad derives its very existence as a corporation was passed in pursuance of this section above quoted, and, hence, is subject, by the express language of the constitution to be, at any time, altered, amended, or repealed. It is then unquestionably competent for the legislature now so to amend the present general railroad law as to subject all corporations owing their existence to it, to the general railroad law, regardless of what may have been the legal rights, privileges, exemptions and immunities of the old corporations who, under this act, merged into new ones. Such corporations must be deemed, by virtue of their having availed themselves of the privileges of this act, to have waived their previous immunities from legislative control and to have brought themselves under the section above quoted, i. e., to have consented that for the future they would be willing to allow the legislature to regulate them.

See on this subject

State vs. Sherman, 22 O. St., 411. Shields vs. Ohio, 260 St. and 95 U. S., 319. Railway Co., vs. Berry, 113 U. S., 465.

The point might be raised that this general act concerning consolidations is unconstitutional inasmuch as it, in the case of special charter roads consolidating, creates a special class of corporations by reason of its clause authorizing roads to retain their special privileges, etc.

Since these special privileges, after the consolidation, are retained simply until the legislature chooses to change them, we do not think that the law is open to this objec-

tion. And see

State vs. Sherman, 22 Ohio St. 411, 430.

Even if it were, we do not think the railroad could raise the point.

Daniels vs. Tearney, 102 U. S., 415, 421.

Further than this, it may be considered established by the Supreme Court of the United States that such language as is used in these general consolidation acts is not broad enough to pass an immunity from taxation, which is, in the legal sense, neither a privilege, franchise or right.

> Cheaspeake Railway vs. Miller, 114 U. S., 176. Morgan vs. Louisiana, 93 U. S., 217,

However, we do not consider it necessary to urge this point, as the above is, in our view, conclusive.

A BILL to amend the General Railroad Law relative to consolidations, being Sections 29 and 30 of Article II of the Act entitled, "An Act to revise the laws providing for the incorporation of Railroad Companies, and to regulate the running and management, and to fix the duties and liabilities of all railroads and other corporations owning or operating any railroad in this State," approved May 1, 1873, being chapter 91 of Howell's Annotated Statutes, as the same is amended by Act number 174 of the Laws of 1873, approved June 7, 1883, the same being Howell's Sections 3343, 3344 as

The People of the State of Michigan enact: That sections twenty-nine and thirty of Article two of an Act entitled, "An Act to revise the laws providing for the incorporation of railroad companies, and to regulate the running and management, and to fix the duties and liabilities of all railrads and other corporations owning of operating any railroad in this State," approved May 1, 1873, being chapter 91 of Howell's Annotated Statutes, as the same is amended by Act number 174 of the Laws of 1883 approved June 7, 1883, be and the same are hereby amended so as to read:—

Section 29. Any railroad company in this State, forming a continuous or connected line with any other railroad company, may consolidate with such other company, either in or out of this State, or partly within or partly without this State, into a single corporation: *Provided*, that no such companies owning parallel or competing lines shall be permitted to consolidate themselves into one corporation. The directors of said two or more corporations may enter into an agreement under the corporate seal of each, for the consolidation of said two or more corporations, prescribing the terms and conditions thereof, the mode of carrying the same into effect, the name of the new corporation, the number of directors thereof, and the names of those who shall be the first directors, which shall be deemed and taken to be the first election of the directors of the consolidated company—which number shall not be less than five, for more than fifteen, the time and place of holding the first election of directors after the consolidation, which time shall note xceedsix months after such consolidation has been sanctioned by the stockholders of said two or more corporations, as hereinafter provided: the number of shares of capital stock in the new corporation, the amount of each share, the manner of converting the shares of capital stock in each of said two or more corporations into shares in such new corporation; with such other details as they shall deem necessary to perfect such consolidation of said corporations, and such new corporations shall possess all the powers, rights and franchises conferred upon such two or more corporations; Provided, However, that any power, right, franchise, privilege or immunity, possessed by either or any of the consolidating companies of a kind which would not be possessed by a company organizing originally under the provisions of this act as now existing or as hereafter amended shall be utterly lost, annulled and abrogated; and such new corporation shall be subject to all the restrictions and perform all the duties imposed by this act as now existing or as hereafter amended upon companies organizing originally under its provisions and in all respects be governed by the provisions of this Act as now existing or as hereafter amended as if it were a corporation originally organized thereunder. Such agreement of the directors shall not be deemed to be the agreement of the said two or more corporations until after it has been submitted to the stockholders of each of said corporations separately at a meeting thereof, to be called upon a notice by publication at least once in each week for four successive weeks, in one of the daily papers published in the city of Detroit, and some newspaper published in each county in this State through which said roads run, in which a newspaper shall be published; the first publication to be at least sixty days before the time specified for said meeting, and signed by the secretaries of each of said companies proposing to consolidate, stating the purpose and object of said meeting, and has been sanctioned by such stockholders by a vote of a majority in interest of the stockholders, in person or by proxy, each share of capital stock being entitled to one vote; and when such agreement of the directors has been so sanctioned by each of the meetings of the stockholders separately, in the manner above mentioned, then such agreement of the directors shall be deemed to be the agreement of the said two or more corporations. A copy of said contract or consolidation agreement filed in pursuance of this act, or of an act entitled, "An Act to provide for the incorporation of railroad companies," approved February twelve, eighteen hundred and fifty-five, and the acts amendatory thereof, and the acts amending or revising the same, with the Secretary of State, and certified by him to be a copy, shall in all courts and places be presumptive evidence of the consolidation of said two or more companies, and of all the facts therein stated: And provided, that any railroad bridge company, or railroad tunnel company, which may be organized under this act to bridge or tunnel the Detroit river, or the St. Clair river or any of the waters in the jurisdiction of this State, shall have a right to consolidate the stock, property and assets of said company organized or to be organized under the laws of this State or which may be created under the laws of any adjacent State or country, to construct any such bridge or tunnel therewith, upon such terms, conditions and agreements as may by the said two corporations be deemed just and equitable: Provided, that every such bridge or tunnel shall be so constructed as not to be a material obstruction to navigation.

SECTION 30. Before the agreement mentioned in the preceding section (Sec. 29) shall have any force or effect and before filing a duplicate thereof in the office of the secretary of State, the articles of consolidation shall be submitted to a board, consisting of the attorney general, commissioner of railroads, the secretary of State, to be examined by such board, to ascertain, whether the proposed consolidation will be in accordance with the constitution and laws of this State and if found in accordance therewith, said board shall approve the same. Upon such approval by said board a duplicate of the articles of agreement shall be filed in the office of the secretary of State, the said two or more corporations, mentioned or referred to in this section, shall be merged in the new corporation provided for in such agreement, to be known by corporate name therein mentioned, and the details of such agreement shall be carried into effect as provided therein. And all and singular the power, rights and franchises of each and all of such two or more corporations, parties to such agreement, of a kind which would be possessed by a company organized under the provisions of this act as now existing or as hereafter amended, and all and singular their rights and interest in and to every species of property and things in action, shall be deemed to be transferred to and vested in such new corporation without any other deed or transfer; and such new corporation shall hold and enjoy the same, together with all the right of way, and all other rights of property, in the same manner and to the same intent, as if said two or more corporations, parties to such agreement, should have continued to retain the title and transact the business of such corporation, save as above provided, and the titles and real estate acquired by either of said two or more corporations shall not be deemed to revert or be impaired by means of anything in this act contained: Provided, That all rights of creditors and all liens upon the property of either of said corporations, parties to the said agreement, shall be and hereby are preserved unimpaired, and the respective corporations shall continue to exist so far as may be necessary to enforce the same: And Provided further, That all the debts, liabilities and duties of either company shall thenceforth attach to such new corporation, and be enforced against the same, to the same extent, and in the same manner, as if such debts, liabilities and duties had been originally incurred by it.

A BILL to amend an act entitled, "An Act to revise the laws providing for the incorporation of railroad companies and to regulate the running and management, and to fix the duties and liabilities of all railroad and other corporations owning and operating any railroad in this State," approved May 1, 1873 as subsequently amended, by adding three new sections relative to consolidated roads to stand as sections fortynine, fifty and fifty-one of Article II of said act.

The People of the State of Michigan enact, That there shall be added to the act entitled, "An Act to revise the laws providing for the incorporation of railroad companies and to regulate the running and management, and to fix the duties and liabilities of

all railroad and other corporations owning and operating any railroad in this State," approved May 1st, 1873, three new sections to stand as sections forty-nine, fifty and

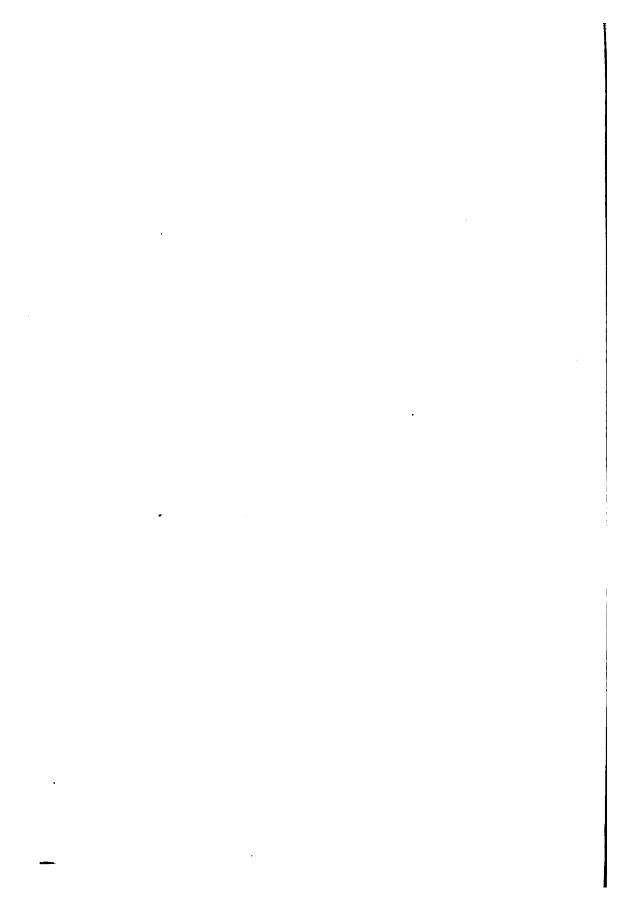
fifty-one of Article II and read as hereinafter set forth.

Section 49. Every railroad and railway company operating a railroad in whole or in part in this State which company may have been by means of a consolidation under any general law of this State or by means of a mortgage foreclosure and sale and reorganization under any general law of this State is hereby declared to be in all respects subject to the general laws of the State respecting railroads as now existing or as hereafter amended; and any franchise, right, power, privilege, immunity, or exemption claimed by any such railroad or railway company of a kind which would not belong to a company organized under the general railroad laws of the State as now existing or as hereafter amended is hereby annulled and abrogated; and every such company shall be subject to all the restrictions and perform all the duties now imposed by the general laws or which may hereafter be imposed upon railroad companies.

SECTION 50. That in case any such railroad or railway company may have been in the past paying a tax different from that imposed upon railroads by the general law, such company may continue to pay such tax or a ratable proportion thereof up to the first day of July, 1892; but thereafter every such company shall pay a tax in the manner

and in the amount now provided by the general laws relating to railways.

Secretary 51. That all acts or parts of acts inconsistent with the provisions of this Act are hereby repealed.



# REPORTS

OF

# RAILROAD COMPANIES 1889.

# ANNUAL REPORT

### OF THE

# MASON & OCEANA RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed February 1, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, HORACE BUTTERS, Ludington, Mich. Vice President, RICHARD G. PETERS, Manistee, Mich. Secretary and Treasurer, M. F. BUTTERS, Ludington, Mich. General Superintendent, MARTIN McDERMOTT, Ludington, Mich. Chief Engineer, CHAS. CRAWFORD, Ludington, Mich.

# DIRECTORS.

HORACE BUTTERS, Ludington, Mich.
M. F. BUTTERS, Ludington, Mich.
WM. H. BUTTERS, Ludington, Mich.
PAT. O'CONNOR, Ludington, Mich.
R. G. PETERS, Manistee, Mich.
Terms expire January 9, 1891.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Aug. 9, 1886.	
Number of Stockholders at date of last election,	7
Number of Stockholders in Michigan at same date,	7
Amount of full paid stock held in Michigan at same date,	\$150,000 00
Date of annual meeting of Stockholders,—Second Monday in Jan.	
Fiscal year of Company ends,—Dec. 31.	
General offices of the Company are located at Ludington, Mich.	

# GENERAL EXHIBIT.

OMNER EMILDII.				
Total income,	DEBIT		Сведіт. \$39,599	80
Total expenses, including taxes,	<b>\$39,218</b>	10		
Net income,		-	<b>\$</b> 381	70
Dividends declared,	<b>\$7,413</b>	<b>76</b>		
Balance for the year, Balance (profit and loss) last year,	<b>\$7</b> ,032	06	7,032	06
	\$7,032	06	\$7,032	06
ANALYSIS OF CAPITAL S	TOCK.			
Amount authorized by charter or articles of asset Par value of shares, \$100 00 No. of shares issued, 1,500 00 Amount paid in on common, \$	ociation, \$150,000		<b>\$</b> 150,000	00
Total amount paid in, as per books of the Comp	any, -	_	150,000	00
Paid in per mile of road owned by Company,  —Miles	<b>\$</b> 5,5 <b>5</b> 5	55		
ANALYSIS OF DEBT ACCO	UNTS.		•	
Funded debt,	-	-	- No	ne
UNFUNDED DEBT.				
For construction,		-	<b>\$</b> 64,611	19
RECAPITULATION.				
Total unfunded debt,		-	<b>\$64</b> ,611	19
Total debt liabilities, Amount of debt liabilities per mile of road (27 n	niles),		<b>\$64</b> ,611 2,393	
Total amount of stock and debt, Stock and debt per mile of road (27 miles),			\$214,611 7,948	
GENERAL BALANCE SHEE	T.—Dr.			
Construction account S Equipment account,	\$164,375 47,035		<b>\$</b> 211,411	10
Other assets: Materials and supplies,	<b>\$</b> 3,200	00	3,200	
Total,		-	*214,611	

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4	MICHI	GAN I	KALLK	DAD	RET	URNS.		Dec.	31,
	GENE	RAL B	ALAN	CE S	HDD	TCr.			
Capital stock, Other liabilities	 (list as fo	- llows)	 :		-			<b>\$1</b> 50,000	00
Due Butters & P	eters S. d	L. Co	)., -		-			64,611	19
Total, -		-			-			<b>\$214,611</b>	19
	COST	OF RO	AD AN	D E	QUIP	MENT.			
Total Cost for Cons	truction a	nd Equi	pment	of Ro	ad an	d Branci	hes Bu	ilt by Compo	ıny.
Total expended f Average cost per								<b>\$</b> 211,411	19
(27 miles),		- -		·	-			7,830	04
CHARGES	AND CRE	DITS ?	ro pr	OPER	TY I	DURING	THE	YEAR.	
		1	MAIN L	INE.					
New rail not use	d	. <u>.</u>	_	_	_	_	_	<b>\$</b> 5,480	39
New rail not use Right of way, New buildings, New fences,	´		_	-	_	-	-	112	
New buildings,			-	-	-	-	-	53	
New fences, -	_ <b>-</b> .		-	-	-	-	-	375	
machinery and t	ools, -		-	-	-	-	-	185	
New cars, -		-	-	-	-	-	-	1,182	97
Total charge	s, - ·		-	-	-	-	-	\$7,389	26
Total charges to	property	accoun	t as al	ove.	_	_	_	<b>\$7,389</b>	26
Property sold an	d credited	i, -	-	-	-	-	-	4,500	
Net addition	to prope	rty acc	ount,	-	-	-	-	\$2,889	<b>26</b>
	AN	IALYSI	S OF	EAR	NIN(	as.			
		PASSE	NGER I	EARNI	NGS.				
Main line and br	anches:								
Local fares,				-		\$5,007	70		
Total passen	ger fares,	-		-		<b>\$</b> 5,007	70		

940 26

\$5,947 96 31 09 220 29 \$5,947 96

Mails,

Total passenger department earnings,

Proportion for Michigan, Per train mile, - -Per mile of road, - -

# FREIGHT EARNINGS.

•						
Main line and branches:  Local traffic,	-	-	<b>\$</b> 33,651	84	•	
Total traffic,	-	-	<b>\$</b> 33,651	84		
Total freight department earn	ings,	-		-	<b>\$</b> 33,651	84
Proportion for Michigan, Per train mile,	-	-	<b>\$</b> 33,651	84 00		
Per mile of road,	-	-	1,242			
Total transportation earnings,	, -	-	<b>\$</b> 39,5 <b>9</b> 9	80		
Transportation earnings per mile Transportation earnings per train		-	1,466	66 74		
Total earnings from operation	of road	l,	<b>\$3</b> 81	<b>70</b> ,		
Total earnings per mile of road, Total earnings per train mile,	-	-	14	14 71		
Proportion of taxable earnings for la Total taxable earnings per mile of	Michiga of road	n, in	39,599			
Michigan,	-	-	1,466	66		
Total income from all sources	, -	-		-	<b>\$</b> 39 <b>,</b> 599	80
Proportion of income for Michiga	n,	-		-	39,599	80
ANALYSI	S OF EX	PEN	SES.			
CLASS 1.—Maintena	nce of H	<sup>7</sup> ay a	nd Buildin	gs.		
Repairs of road way and track, Renewals of ties, Repairs of bridges, including culv Repairs of fences, road crossings	erts and	- d cat is,	tle guards	- - , -	\$6,172 600 896 296	00 00
Repairs of buildings,		-		-	349	38
Total,	-	-		-	\$8,313	88
Class 2.—Maintenan	ce of Mo	tive I	Power and (	Cars.		
Repairs of locomotives, Repairs of passenger cars, - Repairs of freight cars,	- - -	- - -			\$6,971 100 2,942	00
Total,				-	\$10,014	07
CLASS 3.—Cond	lucting T	rans <sub>I</sub>	oortation.			
Fuel for locomotives, Water supply,		-			<b>\$</b> 6,827 896	

6 MICHIGAN RAILROAD RETURNS.		[Dec	31,
Oil and waste,	_	<b>\$</b> 896	50
Locomotive service,	-	5,300	
Passenger train service,	-	1,600	
Passenger train supplies,	-	460	
Freight train service,		2,890	
Freight train supplies,	-	362	
Telegraph expenses (maintenance and operating),	_	100	
Damages to property and cattle,		207	
Agents and station service,	-	600	
Total,	-	<b>\$20,141</b>	22
Class 4General Expenses.			
Taxes,	-	<b>\$74</b> 8	93
Total,	-	<b>\$74</b> 8	93
RECAPITULATION OF EXPENSES.			
Per Ce		•	
Maintenance of way and buildings, 2	1.19	<b>\$</b> 8,313	QQ
	5.54	10,014	
	1.36	20,141	
	1.91	748	
General expenses, including taxes,	1.01		
Total operating expenses and taxes, 10	0.00	<b>\$39,21</b> 8	10
Operating expenses and taxes per mile of road, \$1,452	52		
Operating expenses and taxes per train mile	79		
run, for trains earning revenue (53,360 miles),	<b>73</b>		
Proportion of operating expenses and taxes for			
Michigan:	10		
Main line, 39,218	, 10	39,218	10
Percentage of expenses to earnings, - (99)			
Net earnings per mile of road, \$1,466	66		
Net earnings per train mile,	74		
DESCRIPTION OF ROAD.			
Date when the word was executed for use between its me			
Date when the road was opened for use between its pre	sent	œrшini:	
From Buttersville to Stetson, January 20, 1888.			
25 1 737 7 7377			
MAIN LINE.			
In Michigan, from Buttersville to Stetson,	~-	00 Miles 10	(Mhs.
Total length completed,		 - 27 (	m
Town length completed,	-	- 21	<i>.</i> 0
BRANCHES.			
Main line to forest terminals,	7	00	
Total length of branches owned by company,	-	_	00
		-	

_									
Total length of	hranches	owned l	hy comm	onv	in		Miles,	100ths, M	iles, 100ths,
Michigan,			· -	- -	-	_	7	00	
Total length of	road belor	nging to	this co	mpan	y,	-	-	-	34 00
Total length of	road belo	nging te	this co	mnan	v			•	
in Michigan,		_		_	-	-	34	00	
Aggregate leng	th of track	s in Mi	chigan	belon	g-				
ing to this co	mpany, co	mputed	as sing	le tra	ck	-	-	-	34 00
Gauge of track,	, 3 feet.								
	_		_				Tota		n Michigan,
Total miles of r	oad opera	ted by t	the com	pany,	-	-		34 00	34 00
	Number	of Bridg	es and T	restles	in Mi	ichiga	n.		
Wooden bridge	s, number	of 3; A	.ggregat	e leng	gth, f	eet,	-		<b>450</b> 00
Total, -		3;		_	-	-	-		450 00
	Cros	sinas—F	Railroad (	and H	iahroa	w			
		_			-	-			
At what crossing in operation? What pattern of	None. or patterns	have yo	ou adopt	æd?	None	э.			
Number of cro	esings of	highwa	ys at g	rade i	in thi	is Sta	ate,		11
			Stations						
Number of stat	ions on wh	ole line	е, -	_	_	_	_		6
Same in Michig	gan, -			-	-	-	-		6
			Employ	és.					
Number person	s regularl	v emplo	ved on	all ro	ads o	ppera	ted		
by company,	including	officials	3, -	-	-	-	-		40
Same in Michig	gan, -	-			-	-	-		<b>4</b> 0
Classify your en	mpioyes as	s per to	llowing	list;					Number.
Brakemen,			<b>-</b>	-	-	-	-		7
Conductors,				-	-	-	-		$\frac{1}{5}$
Engineers, Firemen,				-	-	-	-		5
Laborers,				-	_	_	-		16
Snopmen,			_	_	-	-	_		4
Yardmen,				-	-	-	-		2
		REPAIR	S AND RE	ENEW!	LS.				
		. Fenci	ing in Mi	chigar	ı.				
How many mile	es of fenci	ng have	vou?	_	_	_	_		16
Give the numb	er of miles	requir	ed to co						
sides of your		ı <b>M</b> ichi	igan, an	d the	cou	nties	in		
which needed	1: -	-		-	-	-	-		11

MICHIG	A NI	DATE	T A O	PROTITION

[Dec. 31,

# Road Bed and Track.

Number of track sections in Michigan, -	_	-	-	4
Average length of sections (miles),	-	- '	-	7
Average number of men in each section gang,	-	-	-	4
Number of new ties put in whole line during th	e ye	ar,	-	1,000
Number of new ties put in track in Michigan,	_	-	-	1,000
Average number of new ties per mile of road,	-	-	-	<b>37</b>

# ROLLING STOCK.

Number of locomotives of 20 to 30 tons weight,	Number.	Present Estimated Value.
exclusive of tender,	3	<b>\$14,000</b> 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender,	1	2,000 00
Total,	4	<b>\$16,000 00</b>
Number of passenger cars—8-wheel, including	_	
official cars,	1	700 00
Number of express and baggage cars,	1	500 00
Number of box freight cars,	<b>2</b>	400 00
Number of platform cars,	64	11,772 97
Number of log cars,	80	14,400 00
Other cars,	11	2,850 00
Total, Number of locomotives equipped with power	173	<b>\$62,622</b> 97
brakes	2	
What patterns of power breaks have you in use, and number of locomotives and cars with each? Ratchet hand chain and wheel.  Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? No.  What pattern or patterns have you adopted for use? Link and pin.  How are your passenger cars heated? Coal heater.		•

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Miles run by passenger trains during the year. Miles run by freight trains during the year,	r, 	-	-	19,710 33,650
Total miles of trains earning revenue.		_		53,360

# Passenger Traffic.

	Numbers and Quantities.	Miles.	Rate. Dols, Cents.
Number of local passengers carried, _	10,670		
Total number of passengers carried, .	10,670		
Total passenger mileage, or passengers or mile.	arried one	149,380	
Average distance traveled by each passes Average amount received from each pass Average rate of fare per mile for local p	senger, _	14	47 03
Average rate of fare per mile for all pass Number of tons of local freight carried,	sengers,		03
Total tons of freight carried, Total mileage of local freight,	70,600	1,412,000	
Total freight mileage, or tons carried on Average ton haul for local freight, Average ton haul for all freight,	e mile,	1,412,000 20 20	
Average amount received for each ton he	aul,		47
Average rate per ton per mile, received f Average rate per ton per mile, received	or local fre for all freig	ight,	2.3 2.3
Freight Forwarded at M	lichigan Stat	ions.	
			Forwarded Tons.
Grain,		- <del>-</del>	<b>572</b>
Flour,			80 90
Provisions (beef, pork, lard, etc.), Animals,			90 10
Other agricultural products,			5
Lumber and forest products,			69,171
Coal,			5
Plaster, lime and cement,			20
Salt,	~ <del>-</del>		45
Petroleum,			27 60
Railroad iron, iron and steel rails,			50 5
Other iron and castings, Stone, brick and sand,			10
Merchandise and other articles not enun	nerated abo	ve,	500
Total forwarded,			70,600
Tonnage of Articles Transp	orted.—Enti	re Road.	
- · ·		Tons.	
Grain,	-	<b>572</b>	
Flour,	-	80	
Provisions, (beef, pork, lard, etc.),	-	90 10	
Animals,	-	$egin{array}{c} oldsymbol{10} \ oldsymbol{5} \end{array}$	
Other agricultural products, Lumber and forest products,	-	69,171	
2 continued and forest products,	-	00,111	

				Tons.
Coal,	_	_	-	5
Plaster, lime and cement,	-	_	4	20
Salt,	_	_		45
Petroleum,	_			27
Railroad iron, iron and steel	rails.	_	_	60
Other iron and castings,			_	5
Stone, brick and sand,	_		_	10
Merchandise and other	artic	les	not	
enumerated above,	-		-	500
Total tons carried,	_	-	-	70,600

# ADDITIONAL QUESTIONS.

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

None.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 27 miles of telephone line belongs to road.

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

# KILLED.

Jan. 11. Miss Anna Bushaw, school girl, Fern, carelessness on her part; coroner's jury exonerated railroad from all blame.

Nov. 2. Chas. Larson, brakeman, Township of Crystal, purely accidental; coroner's jury returned verdict, without fault of any person or persons.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed,			Injured,	
Cause of Accident,	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						' 
Coupling care.  Derailments.	<b></b>	1		i	: 	
Falling from trains						
Highway crossings	·		1			, - <b></b>
Miscellaneous Overhead obstructions						
	· · · · ·	' <del></del>				 
Total,		.1 1	1			

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	-	-		2
Number of persons injured during the year,		_	_	
Number of casualties purely accidental,			_	1
Number resulting from lack of caution, care	lessr	iess.	or	
misconduct,		-	_	1
Persons killed or injured while intoxicated,		_	-	<del></del>
Trespassers and tramps killed or injured,	-	-		<u></u>
Suicides,	_	_	-	

# CLASSIFICATION OF EMPLOYES.

### KILLED OR INJURED IN MICHIGAN.

-		 				
	_	_		Killed,	Injured.	Total,
Baggagemen						
Brakemen. Conductors.		 <b></b>				1
Engineers. Firemen. Laborers.		 	<b></b>	İ		
ShopmenYardmen		 				
Not classified above	<b></b>	 				
Total,	•	 		1		1
		 		· -		i

STATE OF MICHIGAN, COUNTY OF MASON, SS.

M. F. Butters, Sec'y and Treas. of the Mason & Oceana Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

M. F. BUTTERS,

Sec'y M. & O. R. R.
Subscribed and sworn to before me this 30th day of January, A. D. 1890.
WM. H. BUTTERS,

[L. S.]

Notary Public.

# ANNUAL REPORT.

OF THE

# CHICAGO & NORTHWESTERN RAILWAY COMPANY.

For the Year ending December 31, 1889.

[Filed March 4, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Chairman of the Board, ALBERT KEEP, Chicago, Ill. President, MARVIN HUGHITT, Chicago, Ill. Vice President, M. L. SYKES, New York, N. Y. Second Vice President, M. M. KIRKMAN, Chicago, Ill. Secretary, M. L. SYKES, New York, N. Y. Auditor, J. B. REDFIELD, Chicago, Ill. Treasurer, M. L. SYKES, New York, N. Y. General Manager, J. M. WHITMAN, Chicago, Ill. General Superintendent, S. SANBORN, Chicago, Ill. Assistant General Superintendent, PETER HALLENBECK, Winons, Minn. Division Superintendent in Michigan, W. B. LINSLEY, Escanaba, Mich. Chief Engineer, JNO., E. BLUNT, Chicago, Ill. Superintendent of Telegraph, G. H. THAYER, Chicago, Ill. General Passenger Agent, E. P. WILSON, Chicago, Ill. General Freight Agent, H. R. McCULLOUGH, Chicago, Ill. General Counsel, W. C. GOUDY, Chicago, Ill.

### DIRECTORS.

W. L. Scott, Erie, Pa.

PERCY R. PYNE, New York, N. Y.
F. W. VANDERBILT, New York, N. Y.
W. K. VANDERBILT, New York, N. Y.
H. McK. TROMBLY, New York, N. Y.
JOHN I. BLAIR, Blairstown, N. J.

Terms expire June 1890.

A. G. DULMAN, New York, N. Y. DAVID P. KIMBALL, BOSTON, MASS. CHAUNCEY M. DEPEW, New York, N. Y. SAM'L F. BARGER, New York, N. Y. Albert KEEP, Chicago, Ill. M. L. SYKES, New York, N. Y.

Terms expire June, 1891.

HORACE WILLIAMS, Clinton, Iowa. FRED'K L. AMES, Boston, Mass. JOHN M. BURKE, New York, N. Y. M. Hughitt, Chicago, Ill. N. K. FAIRBANK, Chicago, Ill.

Terms expire June, 1892.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—June 7, 1859.	
Number of Stockholders at date of last election,	3,395
Number of Stockholders in Michigan at same date	13
Amount of full paid stock held in Michigan at same date,	\$93,000 00
Date of annual meeting of Stockholders,—First Thursday in June.	
Fiscal year of Company ends,—May 31.	
General offices of the Company are located at Chicago, Ill.	

GE	NER.	L EX	HI	BIT.				
					DEB	IT.	CREDI	T.
Total income, Total expenses, including taxes	s,	-	<u>-</u> -	<b>\$</b> 16,307,	710	37	<b>\$26,185,280</b>	82
Net income,	-	-	-	-	-	-	<b>\$</b> 9,877,570	<b>4</b> 5
Interest on funded and unfund Sinking funds,	ded d	lebt,	<u>-</u> -	\$5,544, 202,				
Balance applicable to dividend Dividends declared:	ls,	-	-	-	-	-	4,130,073	33
6 per cent on common, 7 per cent on preferred,	-	-	-	\$1,881, 1,562,				
• • •							3,444,504	00
Balance for the year, Balance (profit and loss) last	year,	-	- -	-	-	-	\$685,569 5,836,720	
Receipts from investments are Balance forwarded to next year		t in ir	ter -	est accor \$6,522,		94		
				<b>\$</b> 6,522,	289	94	<b>\$</b> 6,522,289	94
ANALYSI	is of	CAP	ITA	L STOCE	ζ.			
Amount authorized by charter Par value of shares, Common stock outstanding (including stock of pro-	ror a	rticle \$100		associat	ion.	No	o fixed amou	nt.
prietary railroads), Preferred stock outstanding,	- -	-		<b>\$</b> 52,489, 22,325,				
Total amount outstanding in railroads, as per books of the	cludi e Cor	ng st npany	ock	of prop	riet	ary	<b>\$74</b> ,815,320	53
Paid in per mile of road, Mil	les, 4	$,\!2\bar{5}0.3$	8,	<b>\$17</b> ,	602	03	• •	

# FUNDED DEBT.

Class, Character, and Date	of issue.	When Due,	¦	Interest,	Amount.
		1	Rate.	Payable,	
D-2		G 1000	رو ا	W 13 0	
Peninsula R. R., July 1, 1863		1	1 75	Mar. 1 and Sept. 1. Feb. 1 and May 1 Aug. 1 and Nov. 1	\$152,000
Consol. Sinking Fund, Jan. 16, 14			1 75	Aug. 1 and Nov. 1	12,747,000
Chicago & Milwankee R'y, July 1	, 1863	July 1, 1898		Jan. 1 and July 1. Mar. 1 and Sept. 1.	1.700.000
Chicago & Milwaukee R'y, July 1 Milwaukee & Madison R'y, Sept. Chicago & Tomah, Sept. 1, 1880	1, 1000	Sept. 1, 1905 Nov. 1, 1905	6%	May 1 and Nov. 1.	1,528,000
Chicago, Milwaukee & N. W. R'y,	May 1, 1882	Nov. 1, 1905	6%	May 1 and Nov. 1	750,000
Chicago, Milwaukee & N. W. R'y, Northwestern Union R'y, June 1, Madison Extension, April 1, 1871	1872	June 1, 1917	7%	May 1 and Nov. 1 Mar. 1 and Sept. 1	3,500,000
Madison Extension, April 1, 1871.	71	April 1, 1911.	7%	Apr. 1 and Oct. 1. June 1 and Dec. 1.	3,150,000 2,697,000
Menominee Extension, June 1, 18 General Consol. Gold, Nov. 30, 18	772	April 1, 1911 June 1, 1911 Dec. 1, 1902.	74	June 1 and Dec. 1.	12,396,000
			7%	Jan. 1 and July 1.	400,000
Menominee River Extension, Jul	y 1, 1880	July 1, 1908	.՝ 7≰	Jan. 1 and July 1.	160,000
Consol S. F. of 1879 Oct 1 1879	niy 1, 1881	July 1, 1901 Oct. 1, 1929	6%	Jan. 1 and July 1. Jan. 1 and July 1. Jan. 1 and July 1. April 1 and Oct. 1.	720,000 6,905,000
Menominee River R. R., July 1, 18 Menominee River Extension, Jul Escanaba & Lake Superior R'y, J Consol. S. F. of 1879, Oct. 1, 1879. Consol. S. F. of 1879, Oct. 1, 1879.	····	Oct. 1, 1929	5%	April 1 and Oct. 1.	8,016,000
		and the second s	. 5%	May 1 and Nov. 1.	10,000,000
8. F. Debentures of 1933, May 1, 1 Debentures of 1909, July 1, 1884	147 1000	May 1, 1983 Nov. 1, 1909	5%	May 1 and Nov. 1. May 1 and Nov. 1.	4,000,000
C. R. & M. R., 1st Division. Anom	st 15, 1802 st 1. 1861	Aug. 15, 1892 Aug. 1, 1891	7% 7%	Feb. 15 and Aug. 15. Feb. 1 and Aug. 1.	1254.000
Chicago, Iowa & Nebraska, Augus C. B. & M. R., 1st Division, Augus C. R. & M. R., 2d Division, Augus	et 1, 1963	Aug. 1. 1894	7%	Feb. 1 and Aug. 1.	582,000
			7%	May 1 and Nov. 1. June 1 and Dec. 1.	2,832,000
C. R. & M. R., 75 of 1884, June 1, 1	1884	July 1, 1909 July 1, 1897 Nov. 1, 1907	74	June 1 and Dec. 1.	769,000 402,500
W. & St. P. R. R., 2d. Nov. 1, 1867		Nov. 1, 1907	7% 7%	Jan. 1 and July 1. May 1 and Nov. 1.	1,592,000
C. R. & M. R., 3d Division, May C. R. & M. R., 7s of 1884, June 1, 1971, Maple River R. R., July 1, 1877, W. & St. P. R. R., 2d, Nov. 1, 1867 W. & St. P. R. R., Extension Gol	d, Dec. 1, 1871	Dec. 1, 1916	7%	June 1 and Dec. 1.	4,241,000
Minn. Valley B'y, Oct. 1878. Boch. & North Minn. B'y, Sept. 1, Plainview R. R., Sept. 1, 1878. Dakota Central R'y, (W. & St. P. ( Dakota Central R'y, (Southeast I		Oct. 1, 1908	7%	April 1 and Oct. 1.	150,000
Boch. & North Minn. R'y, Sept. 1.	, 1878	Sept. 1, 1908	7× 7×	Mar. 1 and Sept. 1. Mar. 1 and Sept. 1.	200,000 100,000
Dakota Central R'y, (W. & St. P.	on.) May 1, 1882	Sept. 1, 1908 Sept. 1, 1907	8%	Mar. 1 and Sept. 1.	1,065,000
Dakota Central R'y, (Southeast I	iv.) Nov. 1, 1882	Nov. 1, 1907	. 07	May 1 and Nov. 1.	2,000,000
Iowa Midland R'y, August 1, 1870 Ott. C. F. & St. Paul R'y, March I DesMoines & Minneapolis B. R., Northern Illinois R'y Co., April 1 C. & N. W. R'y, Extension of 1886	, 1884 February 1, 1882 , 1885 , April 15, 1886	Oct. 1, 1900 Mar. 1, 1909 Feb. 1, 1909 Mar. 1, 1910 Aug. 15, 1926	8% 5% 7% 5% 4%	April 1 and Oct. 1. Mar. 1 and Sept. 1. Feb. 1 and Aug. 1. Mar. 1 and Sept. 1. Feb. 15 and Aug. 15.	1,600,000 600,000 1,500,000
Total funded debt	= -		'		-
	_				
	UNFUN	DED DEBT.			
For What Incurred.	To the Com	 4- 1- 19	a 11.		A
FOI WHAT INCUITED.	TP (III ORD	ne to be Funder	a or no	w mquiusteu.	Amount.
Kor Construction	1	=		1	
For Construction For Equipment				· · · · · · · · · · · · · · · · · · ·	
For Real Estate (coal lands)	Will probably l	oe paid in cash.			\$125,000 00
For Miscellaneous		•••			
For Current Balances	Will probably l	e paid in cash.			4,506,885 27
				. – –'	
Total Unfunded Debt	•••••	• • • • • • • • • • • • • • • • • • • •	· · · · · ·		\$4,631,885 27
			-		
	RECAPI	TULATION.			
M-4-1 4 1-1 1 1 1 4					DE EUG 00
Total funded debt,	- ·		-	. \$104,98	35,500 00
Total unfunded debt			_	4.63	31,885 27
					<del></del>
Total debt liabilitie	es, _		_	<b>\$109.6</b> 1	17,385 27
	-		-	= 4200,00	,

Amount of debt liabilities per mile of road (4,250.38 miles),	<b>\$</b> 25, <b>7</b> 90	02
Total amount of stock and debt, Stock and debt per mile of road (4,250.38 miles),	\$184,432,705 43,392	
GENERAL BALANCE SHEETDr.		
Construction account (including proprietary lines), 27,117,850 64  Other investments (specifying same): Consol. S. F. Cy. bond on hand, 81,000 00  Cost of \$114,000 C. & N. W. R'y 5% bonds of 1879 on hand, 121,980 00  Clifton Hights Land Company's bond on hand, 7,638 89  C. I. & D. R'y 1st mortgage bonds on hand, 33,000 00  F. E. & M. V. Consol. 6% bonds and Wyo. Cent. R'y 1st m't'g bonds held as collateral for C. & N. W. R'y 4% Ext. bonds of 1886, 11,015,000 00  Land Grant Investments, 299,000 00  Cost of stock of S. C. & P. R'y Co., 21,013 50  Cost of stock of Sioux City Bridge Co., 2,400 00  Cost of stock of Wyoming Central R'y Co., 15,000 00  Cost of stock of Wyoming Central R'y Co., 15,000 00  Cost of stock of Consolidated Coal Co., 1,966,500 00  Cost of stock of C. St. P. M. V. R. R. Co., 1,966,500 00  Cost of stock of C. St. P. M. & O. R'y (147,000 shares), 10,315,659 90		
24,082,692 29	<b>\$</b> 186,631,227	47
Cash Items:  Cash, \$3,254,099 23  Bills receivable, \$32,010 42  Due from agents, \$1,047,546 29	4,333,655	94

Other assets:  Materials and supplies,  Debit balances from companies and	\$	1,595,7	706 1	5		
individuals,	_	477,8	33 3	3	<b>\$</b> 2,073,039	48
Total,	-	_	-	\$	\$193,037,922	89
GENERAL BALANC	E SH	EET	-Cr.			
Capital stock including stock of proprie	tary (	ompa	nies.	_	\$74,815,320	<b>53</b>
Funded debt,	-		-		104,985,500	
Unfunded debt:						
Interest unpaid, Dividends unpaid,	-	\$1,59				
	-		4,051			
Notes payable,	-		5,000			
Vouchers and accounts,	-	2,88	1,723	29	4 691 005	07
Other liabilities (list as follows).					4,631,885	21
Other liabilities (list as follows):  Land income account,					1,830,896	25
Income account consolidation Coal Co	n	-	-	-	116,030	90
R. R. income account—C. & N. W. R	v 59	% S. I	bo	nds	110,000	••
of 1879, redeemed and canceled,	J., - /	-		_	136,000	00
Profit and loss or income accounts,	_	_	_	_	6,522,289	94
Ф-4-1				٠	2109 097 000	
Total,	-	-	-	•	<b>\$</b> 193,037,922	09
COST OF ROAD ANI	D EQU	JIPME	NT.			
COST OF ROAD ANI  Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the	nt of Cost o	Road of the F		Brai etar	nches Built o y Lines	ınd
<b>Total</b> Cost for Construction and Equipment Purchased by Company, Including Embraced in th	nt of Cost of is Rej	Road of the F port.	and . Propri		·	
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment of the	nt of Cost of is Rej	Road of the F oort.	and . Propri	_8	nches Built o y Lines \$162,548,535	
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in 4.250.38 miles).	nt of Cost of is Rej	Road of the F oort.	and . Propri	_8	·	18
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment of the	nt of Cost of is Rej	Road of the F oort.	and . Propri	_8	<b>\$162,548,535</b>	18 29
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in 4,250.38 miles), Proportion of cost for Michigan,	nt of Cost of is Rep pmen nclud	Road of the F oort.  at, ed in	and Propri	.gs - -	\$162,548,535 38,243 14,591,727	18 29
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in 4,250.38 miles),  Proportion of cost for Michigan,  CHARGES AND CREDITS TO PRO	nt of Cost of is Rep pmen nclud	Road of the F oort.  at, ed in	and Propri	.gs - -	\$162,548,535 38,243 14,591,727	18 29
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in 4,250.38 miles), Proportion of cost for Michigan,	nt of Cost of is Rep pmen nclud	Road of the F oort.  at, ed in	and Propri	.gs - -	\$162,548,535 38,243 14,591,727	18 29
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in —4,250.38 miles),  Proportion of cost for Michigan,  CHARGES AND CREDITS TO PROMAIN MI	nt of Cost of is Rep pmen nclud	Road of the F oort.  at, ed in	and Propri	.gs - -	\$162,548,535 38,243 14,591,727	18 29 30
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equi Average cost per mile of road (not in —4,250.38 miles),  Proportion of cost for Michigan,  CHARGES AND CREDITS TO PROMAIN MILLIANDS, extensions and new sidings, Second track,	nt of Cost of is Rep pmen nclud	Road of the F oort.  at, ed in	and Propri	.gs - -	\$162,548,535 38,243 14,591,727 IE YEAR. \$659,178 265,480	18 29 30 31 22
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in 4,250.38 miles),  Proportion of cost for Michigan,  CHARGES AND CREDITS TO PROMAIN MIL.  Lands, extensions and new sidings,  Second track,  New buildings and bridges,	nt of Cost of is Rep pmen nclud	Road of the F oort.  at, ed in	and Propri	.gs - -	\$162,548,535 38,243 14,591,727 IE YEAR. \$659,178 265,480 375,607	18 29 30 31 22 44
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in —4,250.38 miles),  Proportion of cost for Michigan,  CHARGES AND CREDITS TO PROMAIN MIL Lands, extensions and new sidings,  Second track,  New buildings and bridges,  New fences and road crossings,	nt of Cost of is Rep pmen nclud	Road of the F oort.  at, ed in	and Propri	.gs - -	\$162,548,535 38,243 14,591,727 IE YEAR. \$659,178 265,480 375,607 62,358	18 29 30 31 22 44 43
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in —4,250.38 miles),  Proportion of cost for Michigan,  CHARGES AND CREDITS TO PROMAIN MIL Lands, extensions and new sidings,  Second track,  New buildings and bridges,  New fences and road crossings,  Machinery and tools,	nt of Cost of is Rep pmen nclud	Road of the F oort.  at, ed in	and Propri	.gs - -	\$162,548,535 38,243 14,591,727 IE YEAR. \$659,178 265,480 375,607 62,358 15,006	18 29 30 31 22 44 43 47
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in —4,250.38 miles),  Proportion of cost for Michigan,  CHARGES AND CREDITS TO PROMAIN MIL Lands, extensions and new sidings,  Second track,  New buildings and bridges,  New fences and road crossings,	nt of Cost of is Rep pmen nclud	Road of the F oort.  at, ed in	and Propri	.gs - -	\$162,548,535 38,243 14,591,727 IE YEAR. \$659,178 265,480 375,607 62,358	18 29 30 31 22 44 43 47
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in —4,250.38 miles),  Proportion of cost for Michigan,  CHARGES AND CREDITS TO PROMAIN MIL Lands, extensions and new sidings,  Second track,  New buildings and bridges,  New fences and road crossings,  Machinery and tools,	nt of Cost of is Rep pmen nclud	Road of the F oort.  at, ed in	and Propri	.gs - -	\$162,548,535 38,243 14,591,727 IE YEAR. \$659,178 265,480 375,607 62,358 15,006	18 29 30 31 22 44 43 47 01
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in	nt of Cost on is Representation of Cost on is Representation of Cost o	Road of the F oort.  At, ed in  FY DU	and Propri	TH	\$162,548,535 38,243 14,591,727 IE YEAR. \$659,178 265,480 375,607 62,358 15,006 82,695	18 29 30 31 22 44 43 47 01
Total Cost for Construction and Equipment Purchased by Company, Including Embraced in the Total expense for construction and equipment Average cost per mile of road (not in 4,250.38 miles),  Proportion of cost for Michigan,  CHARGES AND CREDITS TO PROMAIN MIL Lands, extensions and new sidings, Second track, New buildings and bridges, New fences and road crossings, Machinery and tools, New cars,	nt of Cost on is Representation of Cost on is Representation of Cost o	Road of the Foort.  At, ed in  FY DU	and Propri	- TH	\$162,548,535 38,243 14,591,727 IE YEAR. \$659,178 265,480 375,607 62,358 15,006 82,695	18 29 30 31 22 44 43 47 01

# ANALYBIS OF EARNINGS. PASSENGER EARNINGS.

	Local Fares.	Through Fares.	Total Passenger Express and Fares. Baggage.	Express and Baggage.	Maile.	Total.	Proportion for Per Train Per Mile of Road.	Per Train Mile.	Per Mile of Road.
Co Main Line and Branches (Consolidated Boad).		1	\$5,598,056 79	<b>\$887,525</b> 50	\$420,347 97	\$420,347 97 \$6,850,890 26			
Toledo & Northwestern B'y. Winona & Si. Peter R. R. Dakota Central R'y. Princeton & Western R'y. Iron River R'y. Jan. 1 to June 10, 1889 Iron Range R'y. Jan. 1 to June 10, 1889 Iake Geneva & State Line R'y. Jan. 1 to June 10, 1889	\$6,008,148 56	\$376,068 <b>9</b> 5	178,728 66 832,828 45 270,045 78 2,221 12 5,691 48 1,179 55	10,117 05 18,065 35 21,146 43 885 90	1,117 06 89,148 28 1,065 85 46,389 74 1,146 48 72,849 17 885 90 628 10	227,988 99 394,278 54 395,541 38 2,923 88 7,420 48 1,179 55	\$659,654	<b>\$1</b> 10.17	\$1,728 88
*Total Passenger Department Earnings	\$6,008,148 56	\$376,058 95	\$6,384,207 51	\$382,734 43	\$581,455 52	\$581,455 52 \$7,848,397 46	\$659,654 21 \$1 10.17	\$1 10.17	\$1,728 88

# FREIGHT EARNINGS.

	Local Traffic. Through	Through Traffic.	Total Traffic.	Total.	Proportion for Michigan.	Per Train Mile.	Per Mile of Boad.
Main Line and Branches, (Consolidated Road).			\$15,926,614 87 \$15,926,614 87	\$15,926,614 87			
Toledo & North Western R'y Winona & St. Peter R. R. Dakota Central R'y Princeton & Western R P. Princeton & Western R P. Iron River R Y. Jannary 1 to June 10, 1889 Iron Range R'y. Jannary 1 to June 10, 1889 Jake Geneva State Line R'y, Jan. 1 to June 10, 1889		17,304,449 24   \$1,202,241 25	1,038,913 72 1,076,829 05 10,007 80 14,857 68 5,820 74	1,088,913 72 1,076,829 05 5,000 95 10,007 80 14,857 68 5,820 74 30 58	\$1,660,385 97	\$1 40.69	\$4,875 80
* Total Freight Department Earnings	\$17,884,449 24	\$1,302,241 25	\$1H,596,690 49	\$1,202,241 25 \$114,586,690 49 \$18,596,680 49	\$1,669,395 97	\$1 40.69	\$4,875 80

\* The distinction as between "Local" and "Through" is here made in accordance with the order of the Commissioner in Circular of February 21, 1885.

	•						
Total transportation earnings,	-	_	_	_	_	\$25,945,078	95
Transportation earnings per mile of	f roa	d,	<b>\$</b> 6	104	18		
Transportation earnings per train r		-		1	30.46		
Miscellaneous receipts from operat			nt,				
other than for transportation, as		ws:	.00.4				
From rentals of tracks or terminals	3,	-	<b>\$34</b>	536	74		
From other sources,	-	-	205,	656	13		
Total,	-	-	-	-	-	<b>\$24</b> 0,192	87
Distribution of miscellaneous es proprietary roads:	rnin	gs be	tweei	n ma	in lin	e and leased	l or
Company:							
Main line (consolidated road)	_	_	_	_	_	<b>\$212,07</b> 2	
Toledo & North Western R'y,	-	_	1	-	-	7,063	
Winona & St. Peter R. R.,	_	_	-		-	13,004	
Dakota Central R'y,	-	-	-	-	-	7,882	
Princeton & Western R'y,	<del>-</del>	<u>-</u> -	-	-	-		51
Iron River R'y, January 1 to June	10, 1	889,	-	-	-	108	
Iron Range R'y, January 1 to June	<b>i</b> 10, 1	1889,	<b>-</b> -	- ^-	- 000	10	54
Lake Geneva & St. Line R'y, Jan	uary	1 to	June	10,	1889,		04
Total miscellaneous earnings,	-	-	-	-	-	\$240,192	87
Total earnings from operation of re	hao					\$26,185,280	82
Total earnings per mile of road,	oua	-	•	-	-	6,160	
Total earnings per train mile,	-	-	-	<b>\$</b> 1	31.67	9,200	-
*Proportion of earnings for Michig	an.	_	_			2,350,611	92
Total proportional earnings per mi		roac	1			, , , –	
in Michigan,	-	-	-	-	-	6,160	69
Total income from all sources,		_	_	_		\$26,185,280	82
Proportion of income for Michigan	ı,	-	-	-		\2,350,611	92
* The "Proportion of Earnings for Michigan," a Average number of miles operated the entire year Gross earnings of all miles operated. Average miles operated in Michigan. Giving proportion for Michigan. To enable the State of Michigan to compute a tapproved June 7, 1883, a further report is herewith	s given by the	above C. & N.	is found W. R'y	l by p Co.	on 3, Ar	\$26,185,2 \$26,185,2 \$2,850,6 ticle 8, of Act No	81.55
CHICAGO & NOR	THWES'	TERN R	AILWAY				
The length of road actually consolidated and re western Railway Company is 2,676.72 miles, of whi road 12 months is 2,643.73, and the number of m 381.55, and the average miles operated as consolid. Using the average miles of consolidated road wi gan is found as follows:	ion me	RI OGO GO	ппинво	mere	or one t	noporaon tor m	ICILI-
Average miles of consolidated road operated 12 m Gross earnings of consolidated road. Average miles operated in Michigan. Giving proportion of earnings for Michigan.	onths.				· · · · · · · · · · · · · · · · · · ·	2,0 \$22,489.5	43.78 17 34
IRON RIVER LIN	E (ALL	IN MIC	HIGAN	).			
Property and franchises sold to C. & N. W. R'y period January 1 to June 10, 1889. The length of Railway Company was 35.16 miles, of which the ax Total gross earnings (January 1 to June 10, 1889). Proportion for Michigan	Co., Ji road r verage r	une 10, epresen number	1889. ited by of mile	The the cases ope	following tal strated 12	ng report covers ock of the Iron F months.was 15.51 \$21.86	the liver  -   6 43   All.
Property and franchises sold to C. & N. W. R period January 1 to June 10, 1889. The length of r Railway Company was 33.63 miles, of which the av Total Gross earnings (January 1 to June 10, 1889). Proportion for Michigan	'y Co., road rep erage n	June 1 presenta umber	0, 1889. ed by t of mile	The he ca a ope		\$7,0	s the ange i. 10 88 All.
				•			

# ANALYSIS OF EXPENSES.

# Class 1.—Maintenance of Way and Buildings.

				•	·		•		
Repairs of road wa	or and	trool						<b>\$1,833,484</b>	<b>61</b>
Described with	ay and			-	-	-		150.090	00
Renewals of rails,		-	-	-	-	<b>-•</b>	-	152,032	02
Renewals of ties,				-	_			427,279	32
Repairs of bridges	s, inclu	ding	culve	rts an	d catt	le gua	rds, .	392,460	50
Repairs of fences,	road c	rossii	ngs, a	nd sig	ns,	_		187,092	<b>4</b> 3
Repairs of buildin	gs.	_	_	_ `		_		447,988	89
•	σ,								
Total,								<b>\$3,440,338</b>	5 <b>7</b>
20101,	•		-	-	-	-		<b>40,220,00</b> 0	•
CL	ASS 2.—	Mainte	enanc <b>e</b>	of Mo	tive P	ower o	nd Care	s.	
Repairs of locomo	tivos						•	<b>\$1,002,07</b> 3	91
Repairs of passeng	707 00,	-	-	-	-	-		342,698	
Description of facility	ger car	ь,	-	-	-	-		892,505	61 61
Repairs of freight	cars,	-	-	-	-	-		892,505	01
Total,	_	_	_	_	_	_		\$2,237,277	<del></del>
	Ctre	na <b>?</b> /	Conda	atina '	Transp	omtati	044		
	CLAS	(	Jonan	ciny.	. ruisp	oriuin	on.		
Fuel for locomotiv	es,	-	_	_	_			\$1,873,800	85
			_					107,694	
Water supply, Oil and waste,	-	-		-	-	_		179,202	35
Locomotive service	_	-	-	-	-			1,791,135	01 01
Passanger train so	o, milaa	-	-	-	-	-		372,723	
Descender train se		-	-	- '	-	-	-	100,266	97
Locomotive service Passenger train se Passenger train su Mileage of passenger English train govern	ppnes	,	-	-	-	-			
Mileage of passent	ger car	18,	-	-	-	-		16,043	
Freight train serv Freight train supp Mileage of freight	ice,	-	-	-	-	-		934,676	
Freight train supp	olies,	-	-	-		-	- :	33,370	
Mileage of freight	cars,	_	_	_	_	_		114,745	<b>57</b>
Telegraph expense	es (mai	intens	ance a	nd or	peratir	ng),		371,616	01
Damage and loss of	of freig	cht an	id ba	ggage		-		68,482	90
Damages to prope	rtv and	d catt	le.	_	<b>,</b>	_		32,860	<b>70</b> .
Personal injuries	- 17 -		,	-	-	_		234 567	20
Personal injuries, Agents and station	- Laceria	-	-	-	-	-		234,567 2,240,817	<b>1</b> 7
Station supplies,	I PCI AI	ce,	-	-	-	-		86,796	۲Q
soution supplies,	-	-	-	-	-	-		00,130	90
. Total,	-	-	-	-	-	-	<u>.</u>	<b>\$</b> 8,558,799	68
		CLASS	4G	eneral	Exper	18es.			
Coloring of the	omel a	æ	of 41					<b>\$175</b> ,572	10
Salaries of the ger	ierai o	шсега	or m	е соп	ipany.	,			
Salaries of clerks	ın gene	erai o	шсев,		-	- '		296,886	4( CC
Law expenses,	-	-	-	-		-		109,226	
Insurance,		-	-	-	-	-		1,774	92
Insurance, Stationery and pri Outside agencies a	inting,		-	-	-	-		184,093	32
Outside agencies a	ind adv	vertisi	ing,	-	_	_		301,044	01
Contingencies,			-	_	_	_		238,629	71
Taxes,	_		_		_			<b>764</b> ,067	25
Total,	_	_	_	_	_	_		\$2,071,294	<b>4</b> 9
	-	-	-	-	-	-	-	~-, <b>-,-</b>	

#### RECAPITULATION OF EXPENSES.

	Per Cent of Expenses.
Maintenance of way and buildings,	21.10 \$3,440,338 57
Maintenance of motive power and cars,	13.72 2,237,277 63
Conducting transportation,	52.48 8,558,799 68
General expenses, including taxes,	12.70 2,071,294 49
Total operating expenses, and taxes,	100.00 \$16,307,710 37
Operating expenses and taxes per mile of road,	<b>\$</b> 3,836 76
Operating expenses and taxes per train mile run, for trains earning revenue (19,887,770	
miles),	82
Total proportion of expenses and taxes for Michigan,	<b>\$1,463,917</b> 79
Percentage of expenses and taxes to earnings, (62.28).	
Net earnings per mile of road,	2,323 93
Net earnings per train mile,	49.67

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

Termini.	When Built,	Miles.
Escanaba to Negaunee	In 1864	62.00
Negaunee to Junct, beyond Ishpeming	In 1864	4.58
Marinette to Escanaba	In 1872	64.65
Powers to Oninnesec	In 1877	24.71
Quinnesec to Menominee River	In 1890	8.19
Second crossing of Menominee River to Crystal Falls	In 1882	12.20
Iron River Junction to Stambaugh	In 1882	19.50
Narenta to Metropolitan	In 1882	
Iron River to Watersmeet	In 1887	35.16
Junction near ishpeming to Kepublic		
Clowry to Michigamme	In 1888	10.44
Wadlk to Champion	In 1888	1.22
Branches to mines:		
Off Main Line	At various dates	42.27
Off Menominee R. R. R. Line. Off Escanaba & Lake Superior Line.	At various dates	31.42
Off Escanaba & Lake Superior Line	'At various dates	8.44
	ı i	•
•		
Total		381.55

# MAIN LINE OR CONSOLIDATED ROAD.

# Road Belonging to the Chicago & Northwestern Railway Company.

Divisions.	Total.	Illinois.	Iowa.	Wiscon- sin.	Michi- gan,	Minne- sota,	South Dakota,	North Dakota
ines chartered as or consolidated with Chicago & Northwestern R'y Co.:								
hicago to Council Bluffs	491.00 121.00 9.40	137.88 121.00 9.40						
Peneva to Aurora	2.40	2.40						
greamore to Courtland	4.64 51.04 75.78 4,50	4.64 35.82 75.78 4.50						
Rinton to Anamosa (Quarry) Stanwood to Tipton Out off near Cedar Rapids. Des Moines to T. & N. W. Con	73.57 8.50 5.96		8.50 5.96					
Belle Plaine to Muchakinock	57.34 64.00 3.25		57.34 64.00 3.25					
Maple River Junct. to Onawa Wall Dake to Moville	80.85 79.87		80.85 79.87					
Carroll to Kirkman  fanning to Audubon Licago to Pt. Howard  Appleton Water Power Expension	34.81 17.00 242.20 8.63	69.73	84.81 17.00					
Kenosha to Rockford	72.10 5.20 85.00 62.68	44.60		28,07 40.40 62.68				
Sheboygan to Princeton	78.40 140.88 46.34	10.30		78.40 140.88 36.04	l		1	
Montfort to Woodman	90,50 4,00			80.50 4.00				
Ipswich to Plattville.  Lancaster Junct. to Lancaster  Ganesville to Afton  Belvidere to Winona	12.04 6.10 227.00	21,00		12.04 6.10 205.87				
Winona Junct. to La Crosse	3.96 6.71 15.68 202.64			3.96 6.71 15.68 49,45				
Clowry to Michigamme	10.44 1.23 104.33				10.44 1.23 90.60			
Powers to Watersmeet. Stager to Crystal Falls. Narenta to Metropolitan	9.10 <b>84.86</b>				9.10 34.86			
Branches to mines:								
Off Main Line. Off E. & L. S. Line Off Menominee River Line.	42.27 8.44 36.13			4.71	42.27 8.44 31.42			
					<del> </del> -			<del> </del>

	Miles. 100ths. Miles. 100ths.
Total length of road belonging to this company,	2,676.72
Total length of road belonging to this company	
in Michigan,	381.55
Aggregate length in Michigan of sidings, spurs,	
and other tracks not above enumerated,	
approximate,	87.47
Aggregate length of tracks in Michigan belong-	
ing to this company, computed as single track,	
approximate,	469,02
Gauge of track in Michigan, 4 feet 81 inches.	

Proprietary or Leased Roads Operated by this Company. Name, description and length of each:

		шинов.	Iowa.	sin.	Michi- gan,	BOUL.	Dakous,	
rinceton & Western RailwayValley Junct. to Necedah	16.08			16.06		ļ		ļ
Coledo & Northwestern Railway	385.19		164.22	l	- • • • • • • • • • • • • • • • • • • •	.34	 	
Jewell Junct. to D. M. & M. Con Jewell Junct. to Wall Lake Junct Eagle (Frove to Hawarden	·		1.75 73.68 145.20					
Vinona & St. Peter Railroad	448.48					288.50	84.48	
Vinona & St. Peter Railroad. Winona to Watertown Mankato Junc. to Mankato Sleepy Eye to Redwood Falls Rochester to Zumbrota		'   <del>-</del>				8.75 24.40 24.48		
Eyota to Plainview Eyota to Chatfield Tracy to Dakota Line						11.46		
Dakota Central Railway Minn. State Line to Pierre. James Valley Junct. to Oakes.		!	,	1				1
James Valley Junct. to Oakes							117.67	14.2
Watertown to Gettysburg. Watertown Junct. to Watertown. Iroquois to Hawarden (Saste Line). Centerville to Yankton. Doland to Groton.							125.49 28.46	
			·					
Total	1,578.66	' 	384.85	16.08		414.84	744.18	14.2 
Recapitulation.		ļ 			_	<u> </u>	: 	İ
C. & N. W. R'y (chartered or consol.) Proprietary Lines.	2,676.72 1,578.66	586.28	778.27 384.85	930.49 16.06	381.55	.13 414.34	744.18	14.2
Total		586.28	1.163.12	946,55	381.55	414.47	744.18	
Total,		_	_		tal Mile 1,573.6	98. 373	In M	ichigan

		Total Miles.	In Michigan.
Total, Total miles operated by the company,	-	1,573.66 4,250.38	381.55

#### Number of Bridges and Trestles in Michigan.

Wooden bridges, number of Iron bridges, number of Combination bridges, number of Wooden trestles, number of	- of -	7; 3;	Aggregate Aggregate Aggregate Aggregate	length, length,	feet,	-	2,543 730 494 25,817
Total,	_	586;	_ · _	_	_	_	29,584

#### Draw Bridges in Michigan.

#### How many on your line?

None.

#### Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Milwaukee & Northern R. R., at Menominee (3 crossings).

Milwaukee & Northern R. R., at Antonie.

Milwaukee & Northern R. R., at Wabik.

Minnesota, Sault Ste. Marie & Atlantic R. R., at Hermansville. Minnesota, Sault Ste. Marie & Atlantic R. R., near Narenta.

Duluth, South Shore & Atlantic R. R., at Negaunee.

Duluth, South Shore & Atlantic R. R., near Lake Angeline.

Duluth, South Shore & Atlantic R. R., at Michigamme.

Duluth, South Shore & Atlantic R. R., at Diorite. Duluth, South Shore & Atlantic R. R., at Dishno.

Duluth, South Shore & Atlantic R. R., near Republic.

What railroads cross your road either over or under your grade in this State, and where?

Milwaukee & Northern R. R., at Antonie.

Duluth, South Shore & Atlantic R. R., at Negaunee (2 crossings).

Minnesota, Sault Ste. Marie & Atlantic R. R., at Flat Rock.

#### Under:

Duluth, South Shore & Atlantic R. R., near Wabik.

At what crossings are interlocking and derailing switches in operation?

Union switch and signal interlocking switches at Duluth, South Shore & Atlantic crossing, one mile east of Michigamme, and at the Milwaukee & Northern crossing at Wabik.

Randolph interlocking switch at Duluth, South Shore & Atlantic Republic

Branch crossing, two miles east of Republic.

What pattern or patterns have you adopted? See answer to preceding question.

· Number of crossings of highways at grade in this State,	141
Number of crossings of highways at grade in this State at	
which there are gates or flagmen,	7

Number of crossings signals, What pattern or pat Number of crossings none; under 7), Number of highway Number of highway Have safety guards la Are your frogs and gards, Session Laws How are they treater Oak block fitted to	terns in of high bridges bridges been erecuard ra 1883?	use? ways ov 18 feet less the cted at ils bloc	er or u above an 18 over-h cked	trace feet seed coas rec	railro k, above obstruc quired	track,	ver	None. 7 None. None. Yes.
•		Ste	ations.					
Number of stations of ings and agents, Same in Michigan a		there a	_	ding		_	•-	686 37
Number of persons i	emilarly	emplo	ved or	ا [[و	roade	onere	ted	
by company, inclu Same in Michigan,	ding offi	cials,	-	-	- -	- -	- -	16,758 1,640
Classify your employ	yès as pe	er follow	wing l	ist:				W b
Baggagemen, Brakemen, Conductors, Engineers, Firemen, Laborers, Shopmen, Yardmen, Others,	- , - 	-	-	-				290 1,129 606 928 1,005 5,140 3,195 712 3,753
	• REI	PAIRS A	ND RE	NEWA	LS.			
	. 1	encing	in Mic	higan	ı.			
How many miles of Give the number of sides of your track needed: Iron County,	miles re	quired	to con	plete ne co	e fence unties	in wh	ooth nich 50.7	587.50
Menominee County, Delta County, Marquette County,	- - -	- - -	-	- -	-		33.5 20. 56.6	
Gogebic County,	-	-	-	-	-		<b>12.8</b>	
Total miles requ	uired,	-	-	-	-	- ,	-	173.60

**\$11,775,620** 

Grand Total,

#### 1889.] CHICAGO & NORTHWESTERN RAILWAY CO. Road Bed and Track. Number of track sections in Michigan, about, 63 Average length of sections (miles) about, 6 Average number of men in each section gang, about, 4.8 Number of new ties put in whole line during the year, 1,183,159 Number of new ties put in track in Michigan. 56,610 Average number of new ties per mile of road, about, 278 New rails put in track: Steel (tons 12,551,738) miles 115.18. Total miles of track with new rails, 115.18 Bridges and Culverts. Amount of trestle work replaced with earth during year (linear feet), None. Timber culverts replaced during the year, None. New bridges built during the year, None. ROLLING STOCK. Present Number. Estimated Value. Number of locomotives of more than 30 tons 688 weight, exclusive of tender, Number of locomotives of 20 to 30 tons weight, exclusive of tender, 96 Number of locomotives of 10 to 20 tons weight, 2 exclusive of tender, 786 **\$**3,615,000 Total, Number of passenger cars—12 wheel, including 233 parlor and official cars, 589,600 Number of passenger cars—8 wheel, including chair and official cars, 122 296,400 117 117,000 Number of express and baggage cars, Number of box freight cars, 14.588 4,376,400 Number of stock cars, 1.861 558.300 Number of platform and coal cars, 4,147 1,078,220 Number of ore cars, 4.346 651,900 Number of conductors' way cars, 270,600 451 Other cars as follows: Dining, Milk, 26 Mail, Combination, 49 Boarding (for men), 18 Dump, 25 Pile driving and wrecking, 28 Ditching, 265 222,200 Total. 26,130 **\$**8,160,620

Number of locomotives equipped with power brakes,  Number of passenger-train cars equipped with power brakes,  Number of freight cars equipped with power brakes,	616 584 347
What patterns of power brakes have you in use, and number of locomotives and cars with each?	
Locomotives equipped with Westing-	
house air brake, 540	•
Locomotives equipped with Westing-	
house air brake and Eames steam brake 38	
Locomotives equipped with American	
steam brake,	
	616
Passengar cars equipped with Westinghouse	<b>~</b> 0.4
automatic air brake,	584
Freight cars equipped with Westinghouse auto-	0.45
matic air brake,	347

Are your freight cars being equipped with automatic couplers as required by Act. No. 147, Session Laws of 1885? Yes.

What pattern or patterns have you adopted for use? The Blocker auto-

matic car coupler.

How are your passenger cars heated? We are using the Baker heater and stoves.

#### MILEAGE, TRAFFIC, ETC.

## Train Mileage.

Miles run by passenger trains during the Miles run by freight trains during the y	-	6,669,722 13,218,048		
Total mileage of trains earning reve	-	19,887,770		
Passenger T	raffic.			
Number of through passengers carried, Number of local passengers carried,	$\begin{array}{c} {\scriptstyle \text{Numbers}} \\ {\scriptstyle \text{and Quantities.}} \\ 51,996 \\ 11,845,387 \end{array}$	Miles.	Rate. Dollars. Cents.	
Total number of passengers carried,	11,897,383			
Total passenger mileage, or passengers car: Average distance traveled by each passes Average amount received from each pass Average rate of fare per mile for through Average rate of fare per mile for local passengers.	nger, enger, n passengers,	284,440 2 - - -	,539 3.95 - <b>\$</b> 0 54 - 02.41 - 02.23	

Average rate of fare per mile for all passengers,

# Freight Traffic.

Number of tons of through freight Number of tons of local freight can	carrie	and Qu ed, 3	nbers antities. 13,961 66,216	Miles	Rate. Dollars. Cents.
Total tons of freight carried,	-	11,8	80,177		
Total mileage of through freight, Total mileage of local freight,	-	-	-	130,81 1,686,84	
Total freight mileage, or tons of	arried	one	mile,	1,817,65	68,830
Average ton haul for through freig Average ton haul for local freight, Average ton haul for all freight,	ht,	- -	- -, -,	-	417 146 153
Average amount received for each to Average rate per ton per mile, received Average rate per ton per mile, received Average rate per ton per mile, received Average rate per ton per mile, received Freight Forwarded	ived for ved for ved for	or thr or loca or all	al freigh	ght, .	\$1 56 - 00.92 - 01.03 - 01.02
Grain,	-	_	_	<u>.</u> .	Tons. 1,195
Flour, Provisions (beef, pork, lard, etc.),	-	-	-		1,061 948
Animals, Other agricultural products,	-	-	-		1,224 3,685
Lumber and forest products, Coal,			-		358,871 69,558 699
Plaster, lime and cement, Salt, Petroleum,	-	-	-		. 099 44 717
Railroad iron, iron and steel rails, Pig and bloom iron,	-		•		96 27,915
Other iron and castings, Ores,	-	-	-		906 2,849,038
Stone, brick and sand, Manufactures—articles shipped free Merchandise and other articles not					1,094 8,361 16,723
Total forwarded,	_	_	-		3,342,135

#### Tonnage of Articles Transported—Entire Road.

<b>\</b>				Tons.	Per Cent.
Grain,	_	_	_	1,362,700	11.47
Flour,	_	_	•	148,263	1.25
Provisions (beef, pork, lard, e	etc.),	_	_	155,806	1.31
Animals,	- "	_	_	510,559	4.30
Other agricultural products,	_	_	_	402,166	3.39
Lumber and forest products,	_	_	_	1,275,299	10.73
Coal.	_	_	_	1,302,554	10.96
Plaster, lime and cement,	_	_	_	131,070	1.10
Salt.	_	_	_	56,753	.48
Petroleum,	_	_	_	111,074	.95
Railroad iron, iron and steel r	ails.	_	_	74,067	.62
Pig and bloom iron,	_ ′	_	_	189,316	1.59
Other iron and castings,	_	_		145,045	1.22
Ores,	_	_		3,726,126	31.36
Stone, brick and sand,	_	_	_	467,077	3.93
Manufactures,—articles shipp	ed fr	om r	oint	,	
of production,	_		_	293,697	2.47
Merchandise and other	artic	les	$\mathbf{not}$	,	
enumerated above,	-	-	-	1,528,605	12.87
Total tons carried,	-	-	_	11,880,177	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company, and United States Express Co. For terms and conditions as to rates, see statement attached. The Express Companies have no core of machinery or repairs of core.

have no care of machinery or repairs of cars.

They do a miscellaneous busines, restricted to lighter articles properly belonging to express business. The Express Companies deliver their freight into this company's cars.

Route.	Rate Per Diem on Limited Tonnage, —Whole Route,	Limit of Pounds to be Carried each Day, Whole Route, at Regular Per	Diem Rate.	Tonnage for Week of Slx Days.	Tonnage for Week of Seven Days.	Rate per 100 Pounds Car-	ried Whole Length of Route, to be Paid on	Excess of Tonnage.	Remarks.
American Express Company.									
Chicago to Council Bluffs	\$275	00 15	,000	90,000	105,000	{	\$1 1	25 00	On mdse. On fruit, fish, oysters, and vegetables.
Chicago to Freeport	80	00 12	,000	72,000	84,000			50	and vegetables.
Elgin to Lake Geneva	5	34 2	,000	12,000	14,000			25	On mdse.
Chicago to Ishpeming	281	43 10	,000	60,000	70,000	{	1 1	50 00	On fruit, fish, oysters, fresh meat and vege- tables.
Kenosha to Rockford	5	07 1	,000	6,000	7,000			35	
Chicago to Winona	135	88 10	,000	60,000	70,000	{	1	60 60	On mdse. On fish, oysters, fruit, and vegetables.
W. & St. P. R. R. and branches, including Dakota Division	109	00 6	,666	40,000	46,666	{	1	60 00	On mdse. On fish, fruit, vegetables oysters and fresh meat.
Clinton to Anamosa	6		,000	6,000	7,000			80	
Stanwood to Tepton Maple River R. R. & branches	2 ( 11		500	8,000 9,000	8,500 10,500			25 30	1
Des. M. & Minn. R. R.	10		,000	12,000	14,000			35	1
Northern Iowa Div	25		,000	12,000	14,000			75	
Milwaukee & Galena Lines	30	3	,000	18,000	21,000			75	\$50.00 per month.
Iowa Southwestern Railway Belle Plaine to Muchakinock Sheboygan to Princeton	• • • • • • • • • • • • • • • • • • •		500	8,000	3,500	···		40	\$50.00 per month. 56 cents per cwt. on all
Sycamore to Cortland			.						freigth. 10% cents per cwt. on all
North Illinois Ry.									freights. 50 cents per cwt. on all
United States Express Company.									freights, On local business between Chicago & Milwaukee and interme-
Chicago to Milwaukee	66	66 17	,000	102,000	119,000	{		40 30	diate stations.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? The entire length of road is afforded with telegraph facilities by the lines of the Western Union Telegraph Company, in which this company owns certain wires, or rights to their use.

#### TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Sleeping cars are run on this company's lines in Michigan.

This company furnishes fuel and light, and keeps in order the exterior of the cars.

They are owned by the Wagnet Palace Car Co. and all charges in

addition to regular fare are made and collected by the owner.

On "extra" cars, (not regularly assigned to this line) this company has paid the Wagner Palace Car Co. of New York, N. Y., \$27.42 as mileage.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid? None.

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

January 19, J. H. Macdonald, Elmwood. Derailment; accidental. January 19, W. F. Cochrane, Elmwood. Derailment; accidental. January 19, H. A. Tuttle, Elmwood. Derailment; accidental.

January 28, S. H. Hull, Nadeau. Lying on track drunk; carelessness. February 28, Daniel Breen, conductor, Memominee. Fell from car; want of caution.

March 23, John Ulmuck, Cascade Jct. Lying on track; carelessness. May 25, Kenney Morrison, Negaunee. Lying on track drunk; careless-

June 11, William McCord, yard master, Escanaba. Fell from train; want of caution.

August 26, Mrs. Johanna Shannan, Negaunee. Crossing track; want of

August 29, John O'Connel, switchman, Ishpening. Struck by cars; want of caution.

September 26, J. C. Wittenstrain, laborer, Cedar Siding. Walking on track; want of caution.

September 27, Thomas Higgins, brakeman, Maple Ridge. Fell between cars; want of caution.

October 7, John Clymo, brakeman, Republic. Walking on track; want of caution.

October 21, S. Anell, Golden. Jumped off moving train; carelessness.

October 27, John Oleson, laborer, Vulcan. Sitting on track; carelessness. October 28, John Groop, switchman, Escanaba. Getting on foot board of engine; carelessness.

November 5, Patrick English, Quinnesec. Crossing track; want of

November 22, unknown man, Apple Creek. Fell off train; carelessness. December 1, unknown man, Birchwood. Threw himself in front of engine; carelessness.

#### INJURED.

January 3, John O'Donnell, brakeman, Bagley. Coupling; want of caution.

January 19, H. R. Armstrong, conductor, Elmwood. Derailment; accidental.

January 19, E. P. Foster, Elmwood. Derailment; accidental.

January 19, Mrs. D. C. McClure, Elmwood. Derailment; accidental.

January 19, Mrs. M. M. Beaser and child, Elmwood. Derailment; accidental.

February 4, Charles Vassau, brakeman, Negaunee. Knocked off car by tank spout; want of caution.

February 22, Nick Mahle, brakeman, Stephenson. Coupling; want of

caution.

February 22, M. W. Pillsbury, conductor, Powers. Coupling; want of caution.

March 11, Mike McMellen, Bagley. Lying on track drunk; carelessness. March 22, Geo. McCain, brakeman, Stephenson. Coupling; want of caution.

May 4, Geo. Fellows, switchman, Vulcan Mine. Coupling; want of caution.

May 9, Jas. J. Ward, conductor, Ballow. Fell off end of car; want of caution.

May 10, John Flemming, switchman, Chapin Mine. Derailment; accidental.

May 15, Napoleon Barshaw, switchman, Memominee. Coupling; want of caution.

May 24, Chas. H. Marston, conductor, Goose Lake. In baggage car doorway, struck by car on sidetrack; want of caution.

June 6, Lewis Gustinson, laborer, Powers. Fell off end of car; want of caution.

June 11, John Johnson, car repairer, Escanaba. Repairing car which was struck by another; want of caution.

June 22, John Stromgist, engineer, Vulcan. Fell off ore car; want of caution.

July 19, John Carran, engineer, Watersmeet. Stepped off platform and fell; want of caution.

July 21, Daniel Kennelly, switchman, Escanaba. Fell on car; want of

July 25, Ferdinand Meisner, Menominee. Jumped off moving train; carelessness.

July 26, F. Landston, laborer, Iron Mountain. Kneeling on stone wall, inflammation; want of caution.

July 26, E. Dierdam, Quintown. Jumping on train; carelessness.

August 13, Thos. Charnley brakeman, Goose Lake. Log fell from car crushing into caboose; accidental.

August 13, Matt. Fogarty, conductor, Goose Lake. Log fell from car crushing into caboose; accidental.

October 3, Jno. E. Rown, brakeman, Winthrop. Coupling; want of caution. October 7, Henry Scherer, brakeman, Waucedah. Coupling; want of caution.

October 16, Jno. Sweeney, Switchman, L. S. Mine. Coupling; want of caution.

October 30, Ed. Ryan, brakeman, Iron Mountain. Coupling; want of caution.

December 7, Pat. Coughlin, switchman, Ishpeming. Coupling; want of caution.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Canses of Accident.		Killed.		Injured.					
Course of Problems	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.			
collisions									
coupling cars					11				
Perailments	. 8				2				
alling from trains		8			8 .	·			
rogs		1				<del>-</del>			
etting on and off trains									
lighway crossings			2						
fiscellaneous everhead and side obstructions		4			6				
vernead and side obstructions			2						
respassers on trains respassers on tracks	·		4						
respassers on tracks			•						
Total	8	8		4	24	·			

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	_	_	_	-	19
Number of persons injured during the year,	_	-	-	_	_	31
Number of casualties purely accidental,	_	_	٠	_	_	11
Number resulting from lack of caution, careles	snes	s, or	misc	cond	uct,	39
Persons killed or injured while intoxicated,	-	_	_	_		3
Trespassers and tramps killed or injured,	_	_	_	_	_	9
Suicides,	_		_	_		1

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Bagragemen Brakemen Conductors Engineers	2 1	8 5	10 6
Firemen Laborers Shopmen	2	2	4
Yardmen	3	6 1	9
Total	8	24	82

STATE OF ILLINOIS, COUNTY OF COOK,

Marvin Hughitt, President, and J. B. Redfield, Auditor, of the Chicago & Northwestern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

MARVIN HUGHITT, J. B. REDFIELD.

Subscribed and sworn to before me this 21st day of February, A. D. 1890.

[L. S.] Signed, J. F. CLEVELAND,

Notary Public.

5

#### ANNUAL REPORT

OF THE

# MICHIGAN CENTRAL RAILROAD COMPANY,

For the Year ending December 31, 1889.

[Filed March 18, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Chairman, C. VANDERBILT, New York City, N. Y. President, H. B. LEDYARD, Detroit, Mich. Vice President and Secretary, E. D. WORCESTER, New York City, N. Y. Auditor, D. A. WATERMAN, Detroit, Mich. Treasurer, HENRY PRATT, New York City, N. Y. General Manager, H. B. LEDYARD, Detroit, Mich. General Superintendent, E. C. BROWN, Detroit, Mich.

Assistant General Superintendent, ROBERT MILLER, Detroit, Mich.

#### Division Superintendents:

D. S. SOUTHERLAND, Detroit, Mich.

W. A. VAUGHAN, Bay City, Mich.

C. B. BUSH, Jackson, Mich.

R. H. L'HOMMEDIEU, Chicago, Ills.

J. B. MORFORD, St. Thomas, Ont.

Chief Engineer, J. D. HAWKS, Detroit, Mich.

Superintendent of Telegraph, E. E. TORREY, Detroit, Mich. Cashier, J. E. GRIFFITHS, Detroit, Mich.

General Passenger Agent, O. W. RUGGLES, Chicago, Ills. General Freight Agent, A. MACKAY, Chicago, Ills.

General Counsel, ASHLEY POND, Detroit, Mich.

General Attorney, HENRY RUSSEL, Detroit, Mich.

#### DIRECTORS.

CORNELIUS VANDERBILT, New York City. WILLIAM K. VANDERBILT, New York City. HENRY B. LEDYARD, Detroit, Mich. EDWIN B. WORCESTER, New York City. SAMUEL F. BARGER, New York City. CHAUNCEY M. DEPEW, New York City. ASHLEY POND, Detroit, Mich. WILLIAM L. SCOTT, ERIE, PA. FREDERICK S. WINSTON, Chicago, Ills. Terms expire May, 1890.

#### STOCKHOLDERS, STOCK, AND GENERAL OFFICERS.

When chartered or articles of association filed,—March 28, 1846.	
Number of Stockholders at date of last election,	1,402
Number of Stockholders in Michigan at same date	17
Amount of full paid stock held in Michigan at same date,	<b>\$63,900 00</b>
Date of annual meeting of Stockholders,—Thursday following first Wednes	sday in May.
Fiscal year of company ends,—December 31.	
General offices of the company are located at-	
New York City, Grand Central Depot.	
Detroit, Mich., foot of Third Street.	
Chicago, Ill., 183 to 189 Dearborn Street.	

#### GENERAL EXHIBIT.

		D	ebit.	Cre	dit.
Total income. Total expenses, including taxes,	- - •	<b>\$</b> 9,895, <b>1</b> 58	$\bar{32}$	<b>\$13,786,925</b>	16
Net income, Interest or funded debt: Main line, \$660 Leased line, 420	,000 ,000			3,891,766	84
Rentals of leased lines,	ıgs,	1,080,000 143,256 407,444	63	2,919,971	06
Balance applicable to dividends,		-	-	<b>\$</b> 971,795	78
Dividends declared (5 per cent),		<b>\$936,910</b>	20		
Balance for the year, Balance (profit and loss) last year,			-	<b>\$34</b> ,885 7,097,534	
*Items not included in above, as follows:					
Income from sundry securities etc, Paid premium on J. L. and S. bonds, etc. *Interest on funded debt and rentals of l		\$7,730	75	46,665	66
lines as per memorandum attached, Balance forward to next year,		397,742 6,773,612			
		<b>\$7,179,085</b>	94	<b>\$7,179,085</b>	94

The management of some twenty years ago, entered and reported to the debit of income account, interest paid, instead that of accruing.

The present administration having regarded such action as incorrect, have therefore charged this amount to income account, and from January 1, 1880, will charge annually against the current income account, the interest and rentals actually accruing.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter Par value of shares,	or articles of association \$100 00	Not limited.
No. of shares issued, Amount paid in on common,	187,382.04 - \$18,738,204 00	

Total amount paid in, as per books of the company, \_ \$18,738,204 00

Paid in per mile of road owned by company,—miles, 270.07, \$69,382 77

# ANALYSIS OF DEBT ACCOUNT.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest,	When Due,	Where Payable,	Amount Outstanding.
Michigan Central Railroad Bonds.				
Consolidated first mortgage, May 1st, 1872 Consolidated first mortgage, Nov. 1st, 1882	5 per ct.	May 1st, 1902 May 1st, 1902	New York New York	\$8,000,000 00 2,000,000 00
Michigan Air Line Railroad 1st mortgage Jan. 1st, 1870	8 per ct.	Jan. 1st, 1890	New York	1,900,000 00
Grand River Valley Railroad, 1st general mortgage, Sept. 1st, 1879	6 per ct.	Sept. 1st, 1909	New York	500,000 00
Grand River Valley Bailroad, 1st general mortgage, March 1st, 1886	6 per ct.	Sept. 1st, 1909	New York	1,000,000 00
Detroit and Bay City Railroad, 1st mortgage, March 1st, 1881.	5 per ct.	March 1st, 1981	New York	3,576,000 00
Kalamazoo and South Haven Railroad, 1st mortgage, Nov. 1st, 1889	5 per ct.	Nov. 1st, 1989	New York	630,000 00
· · · · · ·	•		- 1	-
Total funded debt				\$17,608,000 00

## UNFUNDED DEBT.

For what Incurred.	Is the Same to be Funded, or How Liquidated.	Amount,
For equipment		\$192,853 19
For real estate		
For current balances		
		\$2,667,583 56

#### RECAPITULATION.

Total funded debt, Total unfunded debt,	-	-	-	-	-	-	\$17,606,000 2,667,583	
Total debt liabilitie Amount of debt liabilitie	s, es pe	r mile	of ro	ad (2	270.07	miles),	\$20,273,583 75,067	
Total amount of stock a			70.07	miles	- s).	-	\$39,011,787 144,450	

# GENERAL BALANCE SHEET.—DR.

			•				
Construction account, { Includes amounts expended or struction of leased lines,	account of cor	a- -	\$41,710,092 09				
Other investments, (specifying same):  Land at Detroit, Sundry securities, etc.,	<b>\$</b> 267,783 569,086	95 25	836,870 20				
Cash items: Cash, Bills receivable, Due from agents,	\$1,483,097 1,489 441,067	06	1,925,653 79				
Other assets:  Materials and supplies, Debit balances from companies and in-	<b>\$622,47</b> 0		<b>-,,</b>				
dividuals,	690,288	- <del></del>	1,312,758 50				
Total,			<b>\$45,785,374 58</b>				
GENERAL BALANCE SHEET.—Cr.							
Capital stock,		-	\$18,738,204 00 17,606,000 00				
Interest unpaid,	\$74,380 1,536 1,183,993	<b>50</b>					
Other liabilities (list as follows): Pay rolls, Dividend No. 55, due Feb. 1, 1890, Accrued interest of 1889, due in 1890,	450,434 562,146 395,067	<b>12</b>					
· Profit and loss or income accounts,		_	2,667,557 99 6,773,612 59				
Total,		-	<b>\$</b> 45,785,374 58				
COST OF ROAD AND EQUIPMENT.							
Purchased by Present Con	npany.						
When purchased,—September, 24, 1846. Original cost to present company, of road and Amount expended since purchase, account of Amount expended since purchase, account of	construction	n, (	<b>\$2,000,000 00</b> 28,936,350 89				
Total cost to date of report,  Average cost per mile of road (not inclu  —270.07 miles),	iding sidir	gs -	\$30,936,350 89 114,549 38				
Proportion of cost in Michigan (221 miles),		-	25,315,412 98				

38	MICHIGAN RAI	LROAD R	ETURNS.		[Dec. 31,
Amounts expended		an proprie	tary lines	:	#0.0°0 °07 1°
Michigan Air Li Grand River Va			-	-	\$2,950,527 15 2,389,662 29
Jackson, Lansing Kalamazoo & So	z & Saginaw Rail	road,	-	-	839,645 64
Saginaw Bay &	utn Haven Kauro Northwestern Ra	oaa, ilroad.		-	745,535 24 176,739 00
Saginaw Bay & Detroit & Bay C	ity Railroad,	-		-	3,671,631 88
Total property	account,			-	<b>\$</b> 41,710,092 09

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.	
Land,	\$4,300 00
Leased or Proprietary Roads.	
Michigan Air Line Railroad, Lands, Grand River Valley Railroad, Lands, Jackson, Lansing & Saginaw Railroad, Lands, Detroit & Bay City Railroad, Lands, Saginaw Bay & Northwestern Railroad, Lands,	\$350 00 100 00 7,167 55 36,510 01 190 00
	<b>\$4</b> 8,617 <b>56</b>
BONDS.	
Kalamazoo & South Haven Railroad for \$640,000.00 1st mortgage bonds issued for construction, taken up on maturity, Nov. 1, 1889, by bonds of this company of Nov. 1, 1939, which are secured by mortgage on the Kalamazoo & South Haven Railroad,	630,000 00
Total charges to property account as above,	\$678,617 56
Property sold and credited,  Net addition to property account,	None. 678,617 56

# ANALYSIS OF EARNINGS. PASSENGER EARNINGS.

Roads.	Lucal Fares.	Through Fares.	Total Passenger Fares.	Express and Baggage.	Xfalls	Total	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
Main line and branches	\$1,440,672 72	\$424,909 52	\$1,865,582 24	\$228,062 85	\$114,231 86	\$2,202,886 45	\$1,718,779 86		\$7,754 66
Michigan Air Line Railroad Joliet & Northern Indiana Railroad Jeach River Valley Railroad Jeakson, Lansing & Saginaw Railroad Jeakson, Lansing & Saginaw Railroad Jeach & Bay City Railroad Toledo, Canada Southern Ry, (in Canada) Canada Southern Ry, (in Canada) Michigan Madland and Canada Railway Saginaw Bay & Northwestern Railroad Canada Southern Bridge Company	56,286 63 12,144 77 12,144 77 13,186 73 13,186 73 13,186 73 13,186 73 13,186 73 14,186 74 14,08 75 14,08 44 14,186 75 14,08 14,186 75 14,08 14,186 75 14,08 14,186 75 14,08 14,186 75 14,08 14,186 75 14	80 80 80 90 90 90 90 90 90 90 90 90 90 90 90 90	56,882 78 112,200 67 146,229 55 580,127 88 28,742 28 161,070 40 16770 40 177,738 88 5,464 48 17,115 88 17,115 88	1,282 70 851 48 851 48 12,192 35 12,192 36 16,193 40 11,020 111 10,020 47	9,600 1,880 20 1,880 20 1,820 64 1,820 94 1,820 94 1,820 1,8	70,225 SE 164,721 SE 164,721 SE 164,721 SE 165,721 SE 17,669 74,27,669 74,17	96,529 18 169,806 75 27,689 74 286,654 07 151,589 62 6,609 34 18,824 88 729 68		26 98 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29
Total passenger department earnings	<b>\$3,372,125</b> 61	\$954,985 76	#,327,091 s7	\$398,384 08	\$249,816 OT	\$4,945,241 52	\$2,988,329 68	\$1.30	\$3,177 28
			FREIGHT EARNINGS	RNING8.		1			
Roada.	· .	1	Local Traffic.	Through Traffic.	Total	Total	Proportion for Michigan.	Per Train Mile.	Per Mile of Road.
			\$1,830,908 19	\$1,582,858 81	\$5,362,267 00	\$3,362,267 00	\$2,615,767 05		\$11,896 05
Leased or Proprietary Roads Michigan Air Line Railroad Joliet & Northern Indiana Railroad Grand River Valley Railroad Railroad Jackson, Lansing & Baginas Railroad Railamazoo & South Haven Railroad Derroit & Bay City Railroad Toledo Canada Southern & Derroit Railroad Canada Southern Railway Michigan Midland & Canada Railroad Michigan Midland & Canada Railroad Canada Southern Railway Saginaw Bay & Northwestern Railroad Canada Southern Bridge Company	Rouds.		75,575 88 62,787 68 106,788 68 106,789 68 108,780 69 108,780 69 108,780 69 108,780 69 111,902 89 111,902 89 111,902 89 548 88 55,548 69 111,902 89 548 88 55,548 69 111,902 89 548 88 55,548 69 111,902 89 548 88 55,548 69	* 619 15 47,274 08 47,274 08 27,549 54 2,588 61 4,470 88 68,732 99 1,660,825 44	84, 194 53 110,011 184, 152 03 184, 152 03 14,002 84 24,002 84 2,016, 221 03 2,016, 32 40 3, 204 86 114, 302 80	84, 104 53 110, 011 75 110, 011 75 114, 225 62 24, 002 74 463, 125 2, 976, 328 40 13, 328 86 11, 3, 328 86 348 85	79,764 10 184,832 68 848,734 72 24,002 34 501,802 90 891,899 02 3,294 88 114,802 89		25 25 25 25 25 25 25 25 25 25 25 25 25 2
Total freight department earnings			\$5,264,092 02	\$3,472,870 68	\$8,736,962 70	\$8,736,962 70	\$4,828,392 56	J+ 14	\$5,618 82
	1 1	!				-			

Total transportation earnings Transportation earnings per Transportation earnings per Miscellaneous receipts fro account, other than for transpollows: From other sources,	mile of roac train mile, om operat	ing	\$8,790 1	40	<b>\$1</b> 3,682,204 22	
	• -	_		_		
Total,		-	<b>\$</b> 104,720	94		
. MISC	ELLANEOUS	EAI		4		
	Total Miscellane		Proportion Michigan	٠		
Main line and branches,	<b>\$4</b> 9,539					
Michigan Air Line Railroad, Joliet & Northern Indiana		00	37	09		
Railroad, Grand River Valley Rail-	39,913	00				
road,	988	<b>56</b>	988	<b>56</b>		
Jackson, Lansing & Saginaw	E 767	07	£ 7.27	07		
Railroad, Detroit & Bay City Railroad	5,767 1,803		5,767 1,803	00		
Toledo, Canada Southern &	1,000	00	1,000	00		
Detroit Railroad,	278	<b>64</b>	235	88		
Canada Southern Bridge Company,	261	50	261	50		
Canada Southern Railway				•		
(in Canada),	6,130	09	10 500 005	10		
Total earnings from operation Total earnings per mile of	n of road,	-	13,786,925	16		
road,	8,857	82			•	
Total earnings per train mile		41				
Taxable earnings for Michigan Michigan Air Line R. R.,	an: 146,332	90				
Jackson, Lansing & Sagi-	110,002	•				
naw R. R.,	1,536,627	22			•	
Kalamazoo & South Haven R. R.	51,672	N8				
Detroit & Bay City R. R.	769,678					
Toledo, Canada Southern	× 40 70 4	00				
& Detroit Ry. Canada Southern Bridge	543,734	.00				
Company,	1,234	98				
Michigan Midland &	0.014	20				
Canada Ry., Saginaw Bay & North-	9,814	20				
western Ry.,	132,627	<b>6</b> 6				
Total,	\$3,191,721	97	•			
Total taxable earnings per	<b>4</b> 0,202,722	•			•	
mile of road in Michigan,	4,255	<b>4</b> 0	90.004	Λ1		
Income other than from earn	ıngs,	-	38,934	<u>ar</u>		
Total income from all sor Proportion of income for Mic		<del>-</del> -	\$13,825,860 3,191,719			

# ANALYSIS OF EXPENSES.

	111111	<b>4101</b> 0		13211 13				
CLASS	з 1.— <i>М</i> а	intena	nce of	f Way	and E	Buildings.		
Repairs of road way	and tra	ck.			-		\$945,756 50	
	-		-	-	-		131,710 75	
Renewals of ties,	-	-	-	-	-		196,881 68	
Repairs of bridges, in	cluding	z enly	erts :	and ca	ttle ø	nards.	267,266 07	
Repairs of fences, ros	d cross	ings s	ind s	ions.	6		165,417 00	
Repairs of buildings,			a	-B,	-	-	209,100 35	
pago,	-	-	•	•	-	-		
Total,	_	_		_	_		<b>\$1,916,132 35</b>	
	-	_	-	_	_		<b>1</b> -,,	
CLASS 2.—Maintenance of Motive Power and Cars.								
Repairs of locomotive	8, -	-	-	-	-		<b>\$</b> 651,177 37	
Repairs of passenger	cars,	-		-				
Repairs of freight car Repairs to ferry boats	rs,	~	-	-	-		762,653 23	
Repairs to ferry boats	3, _	-	-	-	-		83,953 50	
Total,	-	-	-	-	-		<b>\$1</b> ,800,612 35	
~		~ •						
C	LASS 3.—	-Condi	icting	Tran	sporta	tion.		
Fuel for locomotives,	_	_	_	_	_	_	<b>\$1,002,154 52</b>	
Water supply.	_	_	-	-	_		E9 E40 47	
Water supply, Oil and waste, Locomotive service,	_	_			_		57,703 16	
Locomotive service,	_	_	_	_	_		774,370 15	
Passenger train service	<b>.</b>			-	-		180,401 74	
Passenger train suppl	.1es,	_	-	-			32,417 67	
Mileage of passenger Freight train service, Freight train supplies Mileage of freight car	cars,	_	_	_	_		6,310 84	
Freight train service,	• -	_	_		-		410,406 25	
Freight train supplies	3, -	_	_	_ •	-		30,216 90	
Mileage of freight car	·s,	_	_	_	_		447,828 74	
Telegraph expenses (.	шашиег	INTICE	auu	operat	ing),		225,246 37	
Damage and loss of f	reight a	and be	aggag	ζe,	_		<b>21,041</b> 70	
Damages to property	and car	ttle,	_	_	-		19,223 66	
Personal injuries, Agents and station se	-	_	-	-	_	·	79,132 16	
Agents and station se	rvice,	_	-	-	-		1,174,081 74	
Station supplies,	-	-	-	-	-		72,238 30	
Station supplies, Detroit river crossing	, -	_	-	-	-		65,939 58	
						**	, —	
Total,		_	-	-	-		<b>\$4</b> ,652,262 95	
	Ctro	a A . C	Yam ama	ıl Exp	AM 0A 0			
				-				
Salaries of the genera	l office:	s of t	he co	mpan	у,		<b>\$</b> 70,000 00	
Salaries of clerks in a	general	office	8,	~				
Law expenses,		-	-	-	_		<b>4</b> 5,790 <b>53</b>	
Insurance,		-	-		-		8,265 12	
Stationery and printing	1g <u>,</u>		-	-	-		71,211 15	
Outside agencies and	adverti	sing,	-	-	-		266,689 30	
Contingencies,	-	-	-	-	-		94,052 69	
Taxes,	-	-	-	-	-		307,622 35	
							AT 00F 144 00	
Total,	-	-	-	-	-		<b>\$</b> 1,027,144 93	
r								

#### RECAPITULATION OF EXPENSES.

Per cent	of
Maintenance of way and buildings, 19.3 International bridge tolls, .5 Maintenance of motive power and cars, 18.2 Conducting transportation, .47.0 Track rentals and terminals, .45 General expenses, including taxes, .10.3	6 \$1,916,132 35 1 50,601 01 0 1,800,612 35 2 4,652,262 95 3 448,404 73
Total operating expenses and taxes,	<b>\$</b> 9,895,158 32
Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue (9,754,666 miles), 10  Proportion of operating expenses and taxes for Michigan: 3,162,346 4	1
Leased or Proprietary Roads.	
Michigan Air Line Railroad, \$216,691 1 Grand River Valley Railroad, 245,119 9 Jackson, Lansing & Saginaw Railroad, 1,254,176 4 Kalamazoo & South Haven Railroad, 43,216 8 Detroit & Bay City Railroad, 500,511 2 Toledo, Canada Southern & Detroit Ry., 455,455 7 Canada Southern Bridge Company, 6,585 0 Michigan Midland & Canada Ry., 13,125 4 Saginaw Bay & Northwestern R. R., 119,498 1  Total proportion of expenses for Michigan,  Percentage of expenses to earnings, 71.77 Net earnings per mile of road, \$2,500 3 Net earnings per train mile, 4  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present From Detroit, Mich., to Chicago, Ill., May, 1852.	9
MAIN LINE.	
In Michigan:	es. 100ths. Miles. 100ths.
	221 00 43 00
In Illinois: From Hammond (Ill. State Line) to Kensington,	6 07

	_
A	•

Total length completed,  Length of double track on main line,	-	-	270 07 120 00
Total length of road belonging to this company,	-	-	270 07
Total length of road belonging to this company in Michig Aggregate length in Michigan of sidings, spurs, and other		cks	221 00
not above enumerated, Aggregate length of tracks in Michigan belonging to th	_	-	162 40
pany, computed as single track, Gauge of track, 4 feet 8½ inches,	-	-	383 40
Proprietary or Leased Roads Operated by this Com	pany		
Name, description, and length of each:	tal Mil	les. I	n Michigan.
Chicago & Kensington,	14	00	
Michigan Air Line Railroad,	115		109 10
Joliet & Northern Indiana Railroad,	45		
Grand River Valley Railroad,		79	83 79
Jackson, Lansing & Saginaw Railroad,	295		295 10
Kalamazoo & South Haven Railroad,		50	39 50
Detroit & Bay City Railroad,	151		151 42
Toledo, Canada Southern & Detroit Railway,		87	47 27
Michigan Midland & Canada Railroad,		68	<b>14</b> 68
Canada Southern Bridge Company,		66	3 66
Saginaw Bay & Northwestern Railroad,		31	89 31
Canada Southern and branches in Canada,	378		
Total,	l <b>,2</b> 86	40	833 83
Total miles operated by the company,	,556	47	1,054 83
Number of Bridges and Trestles in Michigan.			
Wooden bridges, number of, 205; aggregate length, feet,			14,615
Stone bridges, number of, 4; aggregate length, feet,	•		481
Iron bridges, number of, 35; aggregate length, feet, Combination bridges, num-	-		4,486
ber of, 5; aggregate length, feet,	_		3,358
Wooden trestles, number of, 77; aggregate length, feet,	-		7,797
Total, 326;	-		30,737
Draw Bridyes in Michigan.			
How many on your line?			10
Where located, when built, and length of draw span:			
St. Charles, over Bad River, built in 1881, feet,			37 <del>1</del>
Paines, over Tittabawassee River, built in 1886, feet,	-		108
South of West Bay City, over Scuawkoning Creek, built	in		200
1884, feet,			34
South of West Bay City, over west channel Saginaw riv	- rer		0.2
built in 1889 (middle ground), feet,	. 01,		131
South of Kawkawlin, over Kawkawlin River, built in 18	80		101
feet,	۸,۰۰۰,		51
10069	-		-71

Bay City, over Saginaw River, built in 1884, feet, East Saginaw, over Saginaw River, built in 1886, feet, Grosse Isle, over Detroit River, built in 1884, feet, South of Woodmere, over Rouge River, built in 1887, feet, South of Rockwood, over Huron River, built in 1881, feet	188 190 3401 160
South of Rockwood, over Huron River, built in 1881, feet,	<b>128</b>

Character of structure:

Iron, wood and stone piers.

Material of which constructed:

Iron, wood and stone.

Height above water, and depth of water under bridge:

From 15 to 30 feet.

How swung, by engine or hand power? One by engine, balance by hand.

Approaches, straight or curved:

Straight.

Do you require all trains to come to a full stop before crossing a draw, and how are they signalled?

Yes. By bridge tender.

## Crossings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Lake Shore & Michigan Southern Railroad, at West Detroit, Albion,
Kalamazoo, Jackson, Homer, Three Rivers, South End of Junction
Yard, Detroit, Woodward Avenue, Detroit, and Eaton Rapids.

Wabash Railroad, at West Detroit and Delray.

Flint & Pere Marquette Railroad, at Wayne Junction, East Saginaw, Otter Lake, Bay City, North Saginaw and South Saginaw.

Detroit, Monroe & Toledo, at Detroit.

Grand Trunk Railway, at Detroit (Woodward Avenue).

Detroit, Grand Haven & Milwaukee Railroad, at Milwaukee Junction and Owosso.

Pontiac, Oxford & Port Austin Railroad, at Oxford.

Michigan Air Line Railroad, at Rochester and Jackson.

Chicago & Grand Trunk Railway, at Lapeer, Nichols, Charlotte, Lansing and Cassopolis.

Port Huron & Northwestern Railroad, at Vassar and near East Saginaw.

Saginaw, Tuscola & Huron Railroad, at Reese.

Grand Rapids & Indiana Railroad, at Kalamazoo and Wasepi.

Saginaw Bay & Northwestern Railroad, at Pinconning.

Chicago & West Michigan Railroad, at Grand Junction and Grand Rapids.

Fort Wayne & Jackson Railroad, at Jackson.

Chicago & Canada Southern Railroad, at Slocum Junction.

Detroit, Lansing & Northern Railroad, at Lansing and North Lansing. Toledo, Ann Arbor & North Michigan Railroad, at Owosso Junction and East Saginaw.

Cincinnati, Jackson & Mackinaw Railroad, at Homer. St. Louis, Sturgis & Battle Creek Railroad, at Colon. Chicago, Kalamazoo & Saginaw Railroad, at Hastings.

Cincinnati, Saginaw & Mackinaw Railroad, at North Saginaw and West Bay City.

What railroads cross your road either over or under your grade in this State, and where?

Over grade: Toledo, Ann Arbor & North Michigan Railroad, at Ann Arbor. Chicago & West Michigan Railroad, at New Buffalo. Cincinnati, Jackson & Mackinaw Railroad, at 2 miles east of Augusta. Under grade: Cincinnati, Wabash & Michigan Railroad, at Niles and 2 miles south of Niles. Indiana & Lake Michigan Railroad, at Galien. At what crossings are interlocking and derailing switches in operation? Wayne Junction, Albion, Nichols, Wasepi, Colon, Milwaukee Junction, East Saginaw, Lansing, South Saginaw and North Saginaw, Jackson, Hastings and Grand Rapids. What pattern or patterns have you adopted? Union Switch and Signal Co. Swissvale pattern. Number of crossings of highways at grade in this State, 1,290 Number of crossings of highways at grade in this State at which there are gates or flagmen, 102 Number of crossings at which there are electric or automatic signals, 59 What pattern or patterns in use? Railway Safety Gate Co.; Pneumatic Gate Co.; Penn. Steel Co. Magnetic. Number of crossings of highways over or under railroad—									
(over 36; und	er 18.)	6	uway		or un	au I	all Our		
Number of high	way br	idges	18 fe	et abo	ove tra	ıck,			27
Number of high	way br	idges	less	than	18 fee	et abo	ove tre	ick,	9 Yes.
Have safety guar Are your frogs a	nd gna	rd re	ils b	locked	as re	anire	ruenc d bv	Act	168.
174, Session L			-	-		<b>4</b>	u 55 .	-	Yes.
How are they tre									
Wooden block	ing spi	iked t	to ties	L.					
				Statio	ns.				
W		1_1	. 12						400
Number of static Same in Michiga			e iine	,	-	-	-	-	420 280
Came in micing	ш,	-	-	•	-	-	-	-	200
			i	Emplo	yés.				
Number persons	reonle	rlv A	mnlo	പ്പെ	n all i	ഹമർഭ	oners	ted	
by company, in					_			-	8,867
Same in Michiga	n,	-	_	_	_		-	-	5,910
Classify your em	ployés	as p	er fol	lowin	g list:				
Baggagemen,									Number. 93
Brakemen,	-	-		-	-	_	-	-	532
Conductors,	_	_			-	-		-	280
Engineers,	-	-	-				-	_	<b>468</b>
Firemen,	-	-	-	-		-	-	-	538
Laborers,	-	-	-	-	-	-	•	-	2,075 937
Shopmen, Yardmen,	-	-	-		*	-	-	-	678
Others,	_	-		-	-	•	•		3,266
-	-	-	-		-	-	-	-	0,200

# REPAIRS AND RENEWALS.

# Fencing in Michigan.

How many miles of fencing Give the number of miles r track, in Michigan, and the Crawford county,	equired to	complete in which	fence neede	both sides l:	1,766 of your 12			
	•		-	-	19			
Otsego county,			~	-	· · ·			
Cheboygan county,			-	-	64			
Bay county,	-			-	16			
Gladwin county,	-		-	=	34			
Total miles required,		-	-	-	145			
	Road Bed an	d Track.						
Number of two de costions in	Mishiman				045			
Number of track sections in		-		-	245			
Average length of sections	(miles),	~			4.3			
Average number of men in	each section	gang,	•	-	4			
Number of new ties put in	whole line d	uring th	e year,		523,617			
Number of new ties put in t				-	361,197			
Average number of new ties	s per mile of	f road,			342			
New rails put in track:	•	•						
Steel (tons 4355) miles, 3	34.69.							
Total miles of track laid wit	th new rails				34.69			
	, , , , , , , , , , , , , , , , , , , ,		-	=	0200			
. Bridges and Culverts.								
	Ū							
Amount of trestle work rep	laced with e	arth dur	ing the	year,				
(linear feet),	_		Ü		517			
Timber culverts replaced du	ring the ver	ar	_	_	158			
With iron pipe,—number,	J			47				
With sewer pipe,—number,		-		īi				
With timber,—number,		_		97				
With stone,—number,	•	-		3				
with some,—number,				Э				
New bridges built during th	ne year,—nu	mber,	-	-	6			
	1	•		-				
Location.	Kind.	Ma	aterial,	Month Built.	Feet in Longth.			
½ mile east of Galien.	Pile bridge.	W	ood.	October, 1889.	73			
% mile east of Galien West channel Saginaw River Middle ground, West Bay City Middle ground, east & west approaches	Howe Trues De	aw. Wood	and iron	June, 1889.	131			
Middle ground, east & west approaches	Pile bridge.	<u>W</u>	ood.	June, 1889. May, 1889.	445			
Wolverine 4 miles south of Wolverine	Iron Girder. Iron Girder.	, j	ron. ron.	May, 1889. May, 1889.	43 43			
	2.011 011461.	1		many, 1000.	20			
Total			<b></b>		785			

# ROLLING STOCK.

MULLING BIOCK.	
Number of least times of more than 20 to 20	Present r. Estimated Value.
Number of locomotives of more than 30 tons weight, exclusive of tender, Number of locomotives of 20 to 30 tons	62 \$2,556,275 00
	57 228,050 00
Total, 4 Number of passenger cars—12 wheel, includ-	\$2,784,325 <b>00</b>
ing official cars,  Number of passenger cars—8 wheel, includ-	8 71,000 00
in a finial and	01 700 000 00
	783,900 00
	79 152,200 00
Number of box freight cars, 7,4	01 2,220,300 00
Number of stock cars, 1,3	374,275 00
Number of pletform serve	
Number of platform cars, 3,4	
	66 119,700 00
Other cars, 1	50 109,975 00
12,9	49 \$4,615,025 00
Total,	<b>\$7</b> ,399,350 00
Number of locomotives equipped with power brakes,  Number of passenger-train cars equipped	12
	ber of locomotives e," 51 "American." uplers as required
Janney.  How are your passenger cars heated? Martin Anti F.	
	ne odi <b>me</b> avei.
MILEAGE, TRAFFIC, ETC.	
Train Mileage.	
Miles run by passenger trains during the year, Miles run by freight trains during the year, Miles run by mixed trains, Total mileage of trains earning revenue,	3,808,281 5,416,554 529,831 9,754,666
Passenger Traffic.	
	Rate. Miles. Dollars. Cents. 8,245,097 9,401,051

Total number of passengers carried, 3,158,373

Total forwarded,

2,966,369

Total passenger mileage, or passengers carried one mile, 187,646,148  Average distance traveled by each passenger,  Average amount received from each passenger,  59.41  Average rate of fare per mile for through passengers,  Average rate of fare per mile for local passengers,  102.42  Average rate of fare per mile for all passengers,  102.31  Freight Traffic.							
Number of tons of through freight carried, Number of tons of local freight carried,	Numbers Ad Quantities. Miles. Dollars. Cents. 1,427,679 4,872,269						
Total tons of freight carried, Total mileage of through freight, Total mileage of local freight,	6,299,948 - 620,958,780 - 582,161,439						
Total freight mileage, or tons carried one mi Average ton haul for through freight, Average ton haul for local freight, Average amount received for each ton haul, Average rate per ton per mile, received for the Average rate per ton per mile, received for local average rate per ton per mile, received for all	435 119 191 \$1 93 hrough freight, 00.559 ocal freight, 00.904						
Freight Forwarded at Michi	gan Stations.						
Grain, Flour, Provision (beef, pork, lard, etc.), Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and steel rails, Pig and bloom iron, Other iron and castings, Ores, Stone, brick and sand, Manufactures,—articles shipped from point of Merchandise and other articles not enumerat	Tons. 124,700 85,811 15,795 45,077 123,240 1,634,235 71,419 15,020 181,581 16,464 2,974 24,367 45,951 8,927 92,080 of production, ed above, 233,526						

#### Tonnage of Articles Transported.—Entire Road.

							Tons.	Per Cent.
Grain,	_	_	_	_	_	_	542,469	8.61
Flour,	_	_	-	_	_	_	144,093	2.29
Provisions (beef, pork,	lard, et	c.),	_	_	_	_	279,633	4.44
Animals,		_	_	_	_	_	216,722	3.44
Other agricultural prod	lucts,	_	-	_	_	-	315,561	5.01
Lumber and forest pro-	ducts,	_	_	_	_	_	1,929,280	30.62
Coal,	_ ^	_	_	-	_	_	771,518	12.25
Plaster, lime and cemer	ıt,	_	-	_	_	_	27,146	0.43
Salt,	-	-	_	_	_	_	<b>243,433</b>	3.86
Petroleum,	-	_	_	_	_	_	79,274	1.26
Railroad iron, iron and	steel ra	ils,	_	_	_	_	26,907	0.43
Pig and bloom iron,	_	_	-	_	_	_	98,713	1.57
Other iron and castings	ا,	_	_	_	_	_	115,297	1.83
Ores,	_	_	_	_	-	_	13,465	0.21
Stone, brick and sand,	-	_	-	-	_	_	213,551	3.39
Manufactures,—articles	shippe	d fro	m poi	nt of	produ	c-		
tion,	-	_	_	_	_	_	<b>513,704</b>	8.15
Merchandise and other	articles	not	enum	erated	abov	е,	769,182	12.21
Total tons carried,	-	-	-	-	_	_	6,299,948	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company do an express business over the lines of the Michigan Central Railroad Company, paying the following rates for transportation of their freight:

transportation of their freight:	Ü
<b>-</b>	Per Cwt.
Chicago to Buffalo, through freight,	<b>\$</b> 0 80
Chicago to Buffalo, New York produce,	50
Chicago to Detroit, fruit,	80
Buffalo to Lansing, Niles, Three Rivers, Hammond, Jackson,	
Cassopolis, Michigan City, Battle Creek, Kalamazoo, Char-	
lotte, Grand Rapids, Wasepi, South Bend, Joliet and New	
Buffalo,—on business originating at New York and Boston,	80
Mackinaw City to Detroit, venison,	60
Indian River to Bay City, berries,	40
	Per ton per mile
Local freight on main line Detroit to Chicago,	\$0 07
Local freight on Air Line Division Jackson to South Bend,	07
Local freight on Grand Rapids Division Rives Junction to	
Grand Rapids,	07
Local freight on Saginaw Division Jackson to Mackinaw City,	07
Local freight on South Haven Division Kalamazoo to South	•
Haven,	07

Division.

Bay City Division, Detroit to Bay City: Produce, First class freight rates.
Fish and fruit,—First class freight rates with 10 per cent added.
Merchandise,—13 first class freight rates.
Messengers' fare \$6.50 per day excepting on the Saginaw branch, which is
\$25.00 per month.
Toledo Division,—Detroit to Toledo.
Merchandise, $1\frac{1}{2}$ 1st class freight rates.
Special freight, 1st class freight rates with 10% added.
Messengers' fare, \$3.30 per day.
Canada Division,—Buffalo to Detroit and freight therefrom to Toledo

	Per Cwt.
Buffalo to Toledo,	60
Toledo to Buffalo, produce,	44
Toledo to Buffalo, Eastern freight,	46.27
Toledo to Buffalo, local,	46.27
Detroit to Buffalo, local,	41.25
Detroit to Buffalo, produce,	30.25
Buffalo to St. Thomas,	<b>24</b>
Detroit to St. Thomas,	<b>24</b>
Local freights in Canada, 1st, 1½ 1st class freight rates.	
Special,—1st class freight rates with 10 per cent added.	
Niagara Division, Niagara to Chippewa,	14
Clifton to Niagara,	15
Midland Division, St. Clair to Lenox,	10
Buffalo to Chicago, New York freight consigned to Amer-	
ican Express Company,	<b>4</b> 0
Empty packages returned on all divisions at one-half regular rates.	
	•

#### Telegraph.

Number of miles of telegraph on your road, Michigan Central Railroad Company,	_		1,082.80
Michigan Central Railroad and Western	Union	Tele-	
graph Company,	_		279.00
Western Union Telegraph Company, Canada Southern Railway Company,	_	- <b>-</b>	5,213.00
Canada Southern Railway Company,	_		925.30
Great Northwestern Telegraph Company,			352.60
			7.852.70

#### ${\it Transportation \ Companies.}$

#### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report? Pullman Palace Car Company, Chicago, Ill., \$123.93.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

mneage paid:	
American Refrigerating Transit Co., St. Louis, Mo.	<b>\$24 00</b>
Anglo American Refrigerating Car Co., Chicago, Illinois	16,302 <b>4</b> 9
Arms Palace Horse Car Co., Chicago, Illinois	256 62
Armour Cudahy Refrigerating Line, South Omaha, Nebraska	94 00
Armour Refrigerating Line, Chicago, Illinois	2,388 20
Atlanta Stone Coal & Lime, Atlanta, Ga.	2.82
Austell Refrigerating Car Co., Atlanta, Ga.	2.01
Barrett & Barrett, Chicago, Illinois	<b>34</b> 89
Barrett & Barrett, Chicago, Illinois S. E. Barrett, Manufacturing Co., Chicago, Illinois Blue Line, Rochester, N. Y.	2 79
Blue Line, Rochester, N. Y.	56,609 39
Boston Live Stock Line, Boston, Mass.	7,547 40
Bousfield & Co., Bay City, Mich.	310 78
Burton Stock Car Co., Boston, Mass.	69 60
Canada Southern Line, Rochester, N. Y.	5,621 <b>49</b>
Chicago Refrigerating Car Co., LaFayette, Indiana	35 83
Chicago & Ohio Coal & Car Co., Chicago, Illinois	862 32
Chicago Steel Works, Chicago, Illinois	2 77
Cincinnati, Hamilton & Dayton, Cincinnati, Ohio	351 18
Columbus & Hocking Coal & Iron, Columbus, Ohio	3,550 89
Cupples Wooden Ware Co., Grand Rapids, Mich.	16 11
Crocker Chair Co., Chicago, Illinois	8 67
Detroit Iron Furnace Co., Detroit, Mich.	4 59
J. Dold & Son, D. Beef Line, Kansas City, Mo.	19 33
Eagle Consolidated Tank Line, Cleveland, Ohio	<b>68 05</b>
Empire Line, Philadephia, Pa.	3 15
E. C. Walker, Detroit, Mich.	3 72
Empire Oil Works, Reno. Pa.	3 90
J. W. Elsworth & Co., Chicago, Illinois	71
Delaware Oil Co., Lima, Ohio	12 73
R. R. Fitchburg, Boston, Mass.	13 <b>2</b> 11
Frazer Lubricating Co., Chicago, Illinois	15 11
G. H. Hull & Co., Louisville, Ky. Grand Rapids & Indiana, Grand Rapids, Mich.	9 26
Grand Rapids & Indiana, Grand Rapids, Mich.	88 <b>94</b>
Great Eastern Line, Montreal Quebec	12 57
G. H. Hammond & Co., Ref. Line, Chicago, Illinois	1,279 09
Hutchins Ref. Car Co., Chicago, Illinois	1,207 01
Indianapolis, D. & Western, Indianapolis, Indiana	20 13
Jenkins Live Poultry Car Co., Chicago, Illinois	6 90
Kansas City D. Beef Line, Kansas City, Mo. Silas Kilburn & Co., Grand Rapids, Mich. C. & W. M. Ry.	29 58
Silas Kilburn & Co., Grand Rapids, Mich. C. & W. M. Ry.	3 32
Lima Oil Co., Lima, Ohio	681 74
Louisville New A. & C. Ry. Chicago, Illinois	9 06
Michigan Salt Line, East Saginaw, Mich.	<b>4,848 70</b>
Midland Line, Buffalo, N. Y.	14 09
Ed. Morris Ref. Line, Chicago, Illinois	103 05

N. Morris & Co., Ref. Line, Chicago, Illinois	<b>\$</b> 98 31
Menosha Wooden Ware Co., Chicago, Illinois	4 27
Mutual Oil Co., Oil City, Pa.	5 64
National Despatch Line, St. Albans, Vt.	533 <b>4</b> 5
National Linseed Oil Co., Chicago, Illinois	295 <b>29</b>
New York, Lake Erie & West, Jersey City, N. J.	246 85
Nickel Plate Line, Rochester, N. Y.	3 22
Ohio & Western Coal and Iron Co., Columbus, Ohio	45 57
Ohio Coal Exchange, Columbus, Ohio	30 97
Ohio Coal Exchange, Columbus, Ohio D. W. Parker, Kalamazoo, Mich.	12 20
Peerless Tank Line, Cleveland, Ohio	25 77
Paragon Refining Co., Toledo, Ohio	32 <b>24</b>
Paragon Refining Co., Toledo, Ohio	4 10
Red Line, Buffalo, N. Y	96 11
Rend, (W. P.) Chicago, Illinois	27 97
Rend, (W. P.) & Co., Chicago, Illinois.	46 85
Southern Iron Car Line, Atlanta, Ga.	23 67
Sioux City D. Beef Line, Sioux City, Iowa	6 <b>4</b> 7
Scofield, Shurmer & Teagle, Cleveland, Ohio	6 70
Sheboygan Chair Co., Chicago, Illinois	6 50
Somers Coal Co., Columbus, Ohio	<b>278 45</b>
Street's Stable Car Line, Chicago, Illinois	168 37
Swift Refr. Transp. Co., Chicago, Illinois	5,446 98
St. Charles Car Co., St. Louis, Mo.	18 95
St. Louis Refr. Car Co., St. Louis, Mo.	50 60
Standard Oil Co., Cleveland, Ohio	2 58
Standard Oil Co., (U. T. L.) New York, N. Y. Sun Oil Line Co., Toledo, Ohio	1,035 52
Sun Oil Line Co., Toledo, Óhio	41 61
Western Michigan Equip. Co., Grand Rapids, Michigan,	
C. & W. M. R'v	` 177 8 <b>4</b>
Washington Refining Co., Washington, Pa.	35
White Line, Buffalo, N. Y	4 58
Wheeling & Lake Erie, Toledo, Ohio	103 57
Total, ,	<b>\$111,552 64</b>

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1989.

#### KILLED.

January 16, Burger Godfrey, West Bay City. Jacking up car; carelessness.

February 2, Charles Dease, Bay City. Run over; trespasser.

March 6, unknown man, Junction Yards. Run over; trespasser. March 29, L. Wesendorf, West Bay City. Jumped from way Car; carelessness.

April 29, Samuel Yagust, Junction Yards. Struck by train; trespasser.

May 4, unknown man, Vanderbilt. Lying on track; trespasser

May 6, Gordon Kake, Lapeer. Walked off train; carelessness. May 8, Mrs. Alex. Hadlock, Kalamazoo. Struck by engine 204; Highway collision.

May 8, Mrs. George Smiley, Kalamazoo. Struck by engine 204; highway collision.

May 8, Mrs. Middleton, Kalamazoo. Struck by engine 204; high-

way collision.

May 8, Mrs. M. E. Wattles, Kalamazoo. Struck by engine 204; highway collision.

May 8, Miss Gertie Tillitson, Kalamazoo. Struck by engine 204;

highway collision.

May 20, Milburn Hoffman, Detroit. Run over; trespasser.

May 29, Charles Taylor, Galien. Stealing ride and fell from train; trespasser.

June 17, James Moklan, Zilwaukee. Fell from train; accidental.

June 27, F. W. Holt, Dentons. Walking on track; trespasser.

July 2, J. S. Rarepeski, West Bay City. Went to sleep on clinker pit; carelessness.

July 2, Samuel Harvey, Gladwin. Run over; lack of caution.

August 3, Scotty Anderson, Brooks. Jumping on train; trespasser.

August 10, W. D. Manchester, Vassar. Standing on track; lack of caution.

August 26, Mrs. Linn, Ypsilanti. Jumped off train; lack of caution.

August 28, unknown woman, Marshall. Struck by train; trespasser.

August 29, Elizabeth Rourke, Galien. Walking on track; trespasser.

October 1, Mrs. Hill, Zilwaukee. Struck by train; trespasser.

October 2, Delbert Kinsler, Detroit. Crossing between cars; lack of caution.

October 8, unknown man, Dearborn. Struck by train No. 15; tres-

October 7, C. H. Wetherbee, Dailey. Fell from train; accidental.

October 13, Peter Quin, Lansing. Boom breaking on steam derrick; accidental.

October 13, John Tontilevish, Lansing. Boom breaking on steam derrick; accidental.

October 13, George Ruby, Lansing. Boom breaking on steam derrick; accidental.

October 13, N. H. Palmer, Detroit. Collision. October 13, Charles Pierce, Detroit.

Collision. October 15, Martin Kramer, Detroit. Run over; lack of caution.

October 24, Augusta Petrowsky, Detroit. Catching onto cars; careless-

November 2, Joseph Koskaski, Cheney. Hand car jumping track; accidental.

November 3, unknown man, Dowagiac. Run over; trespasser.

November 6, John Johnson, Bay City. Run over; lack of caution. November 6, unknown man, Detroit. Run over; trespasser.

November 6, John Soski, Vassar. Dirt falling on him; accidental. November 7, W. H. Marentette, Reese. Coupling cars; carelessness.

November 23, Duncan D. Burdick, East Saginaw. Run over; suicide. December 11, unknown man, Grayling. Struck by train; trespasser.

December 13, unknown man, Beaver Lake. Run over by train; tres-

December 17, Mr. VanDusen, Ann Arbor. Struck by engine; carelessness.

December 22, Edward Starkey, Niles. Run over by engine; trespasser.

December 23, Eugene Lamb, Vanderbilt. Run over; accidental. December 25, Herbert Cranson, Dexter. Struck by train; carelessness. December 25, William Doyle, Detroit. Struck by engine; trespasser.

December 30, Coley Durkee, Galesburg. Struck by engine; company not responsible.

#### INJURED.

January 4, W. R. Bingham, Detroit. Coupling cars; carelessness. January 5, A. F. Minturn, Detroit. Coupling cars; carelessness.

January 11, Elmer Chisholm, Battle Creek. Coupling cars; careless-

January 19, Elmer Rayhood, Jackson Junction. Coupling cars; care-

January 26, Adolph Bemoig, Vassar. Engine taking water; carelessness. January 30, August Verboska, Detroit. Walking on track; trespasser.

January 31, A. E. Benner, Bay City. Coupling cars; carelessness.

February 1, Amos Poggle, Detroit. Driving across track; carelessness. February 1, Patrick Nestor, Junction Yards. Loading ice; carelessness.

February 2, F. Williams, Bay City. Coupling cars; carelessness. February 7, Mrs. Chas. Colf, Bennington. Walking on track; tres-

February 20, Chas. Grant, Owosso. Coupling cars; carelessness.

February 25, Mrs. Albert Basom, Ypsilanti. Jumping from train; care-

February 25, Frank Rivers, Bay City. Getting off engine; carelessness.

February 26, C. F. Chapman, Detroit. Struck by bridge; carelessness. February 27, James O'Connor, Eden. Coupling cars; carelessnes.

February 27, George Tree, Albion. Jumping from train; carelessness.

February 28, Jacob Lients, Detroit. Pushed off train; carelessness.

March 1, Michael Collins, Niles. Fell off train; carelessness.

March 4, George Carl, Chesaning. Walking on track; trespasser.

March 6, Joseph Rumney, Junction Yards. Coupling cars; carelessness. March 30, Cyrus McGregor, Bay City. Riding across crossing on hose

March 30, L. W. Tobias, Bay City. Riding across crossing on hose cart. April 19, Chas. Carter, Dunham. Jumping off engine; carelessness.

April 24, Thos. Stewart, Battle Creek. Coupling cars; carelessness.

May 2, S Swinton, Frederic. Riding on steps of train; carelessness. May 2, J Coombs, Vanderbilt. Hand car jumping track; accidental.

May 8, Mrs. S. A. Gibson, Kalamazoo. Struck by engine No. 204; highway collision.

May 8, Mrs. J. S. Barnes, Kalamazoo. Struck by engine No. 204; highway collision.

May 19, Edward Waterson, Pinconning. Run over; intoxicated.

May 23, Mrs. John Nicholles and Daughter, Bay City. Walking around train; carelessness.

May 24. — Murphy, Jackson Junction. Struck by train; trespasser.

May 26, Louis Begeman, Ann Arbor. Struck by train; trespasser.

June 8, — Hall, Wayne. Jumped off train; carelessness.

June 11, Unknown man, Saginaw. Struck by engine; trespasser.

June 14, A. B. Canfield, Detroit. Coupling cars; carelessness.

June 22, Asa B. Wilson, Jackson. Fell from train; accidental. June 25, Howard Howles, Battle Creek. Walking on track; trespasser. June 28, L. Garver, Lansing. Coupling cars; carelessness. July 4, Mr. Simons, Ypsilanti. Struck by train; trespasser. July 9, J. Dart, W. Detroit. Coupling cars; carelessness.
July 12, A. K. Bridge, Saginaw. Coupling cars; carelessness.
July 18, F. F. Drake, Jackson. Jumped off train; carelessness. July 20, F. Dwelley, Dailey. Struck by lever of engine; accidental. July 22, Mr. Walbridge, Rochester. Fell off train; accidental. July 24, A. H. Flynn, Bay City, Coupling cars; carelessness. July 24, B. Taylor, Niles. Passing over top of train; accidental. July 25, J. Prindeville, Bay City. Coupling cars; carelessness. July 25, Frank Langdon, Jackson. Coupling cars; carelessness. July 27, Edward Aplin, Bay City. Coupling cars; carelessness. August 2, D. Cavanaugh, Millington. Eccentric strap breaking; accidental. August 13, unknown man, Inkster. Struck by train; trespasser. August 16, Frank Rogers, Jackson Junction. Coupling cars; careless-August 20, James Harwood, W. Bay City. Coupling cars; carelessness. August 27, D. S. Pond, West Branch. Coupling cars; carelessness. August 28, Thomas McHugh, Detroit. Coupling cars; carelessness. August 29, J. German, Wayne Junction. Coupling cars; carelessness. August 31, E. D. Braner, Detroit. Coupling cars; carelessness. September 4, McKelvey (boy), Chelsea. Jumping train; carelessness. September 8, Wm. Garber (boy), Lansing. Jumping train; carelessness. September 9, Will Varney, Wayne. Coupling cars; carelessness. September 12, unknown man, Lansing. Fell off train, drunk; careless-September 12, Chas. Converse, Mason. Jumping train; carelessness. September 13, Paulo Marell, Vienna. Run over; carelessness. September 27, M. G. Beckley, Linwood. Jumping train; carelessness. September 28, C. J. Arnold, Monroe. Coupling cars; carelessness. October 8, Unknown boy, Columbiaville. Knocked down by train; carelessness. October 13, W. Fuller, Three Rivers. Coupling cars; carelessness. October 20, Walter Warren, Detroit. Coupling cars; carelessness. October 20, A. Renkel, Detroit. Coupling cars; carelessness. October 28, Edward Boyd, Detroit. Run over; carelessness. November 2, John Brown, Cheney. Hand car jumping track; accidental. November 4, Jacob Gould, Bay City. Coupling cars; carelessness. November 5, Luke Gorman, Detroit. Coupling cars; carelessness. November 6, Thomas Boyle, Vassar. Jumping off train; carelessness. November 11, Joseph Corse, Beaver Lake. Coupling cars; carclessness. November 11, Wm. Aplin, Bay City. Jumping off cars; carelessness. November 13, Chas. Kruger, Junction Yards. Coupling cars; carelessness. November 15, Joseph Savage, Bay City. Coupling cars; carelessness. November 26, W. E. Reid, Detroit. Struck by train; carelessness; tres-November 26, Fred Smith, Detroit. Coupling cars; carelessness.

December 7, Fred Fie, Detroit. Struck by train; trespasser.

December 8, Patrick Digney, Jackson. Jumping train; carelessness.

December 14, John Prindeville, Bay City. Coupling cars; carelessness.

December 15, Chris. Hofschneider, Detroit. Crossing between cars;

December 18, H. H. Myers, Chesaning. Coupling cars; carelessness.

carelessness.

December 23, George Emmons, Bay City. Coupling cars; carelessness.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Cause of Accident.		Killed.		Injured,			
Catalo la Acadomi,	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	
Collisions		2					
Coupling cars		ī			35		
Derailments Falling from trains		4		4	2		
Getting on and off trains	i	1	1	1	4		
Highway crossings Miscellaneous	1	10	5	1	10		
Overhead obstructions Trespassers on trains			2				
m			21			1	
Total	2	18	29	6	51	8	

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	. 49
Number of persons injured during the year,	. 88
Number of casualties purely accidental,	. 15
Number resulting from lack of caution, carelessness, or	r
misconduct,	. 88
Persons killed or injured while intoxicated,	<b>. 2</b>
Trespassers and tramps killed or injured,	. 30
Suicides,	. 1

# CLASSIFICATION OF EMPLOYES.

# KILLED OR INJURED IN MICHIGAN.

	Killed,	Injured,	Total,
Baggagemen Brakemen. Conductors Engineers Firomen Laborers. Shopmen Yardmen.	1 6 1 2 1 4 8	19 1 2 2 5 1 25	1 25 2 4 8 9 4 26
Total	49	82	62 

STATE OF MICHIGAN, COUNTY OF WAYNE, Ss.

H. B. Ledyard president, and D. A. Waterman auditor of the Michigan Central Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. s. of R. R.] Signed, H. B. L.E.

H. B. LEDYARD, President. D. A. WATERMAN, Auditor.

Subscribed and sworn to before me this 15th day of March, A. D. 1890.
[L. S.]

GEO. L. NADOLLECT, Notary Public.

8

OF THE

# CANADA SOUTHERN BRIDGE COMPANY,

For the Year Ending December 31, 1889.

[Filed March 18, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York.
Secretary, CHARLES F. COX, New York.
Treasurer, CHARLES F. COX, New York.
Transfer Agent, LANDRETH H. KING, New York.

### DIRECTORS.

CORNELIUS VANDERBILT, New York, N. Y. WILLIAM K. VANDERBILT, New York, N. Y. JAMES TILLINGHAST, Buffalo, N. Y. SAMUEL F. BARGER, New York, N. Y. CHARLES F. COX, New York, N. Y. EDWIN D. WORCESTER, New York, N. Y. EDWARD A. WICKS, New York, N. Y. CHAUNCEY M. DEPEW, New York, N. Y. HENRY B. LEDYARD, Detroit, Mich.

Terms expire June, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Consolidation, Aug. 20, 1873.	
Number of Stockholders at date of last election,	13
Number of Stockholders in Michigan at same date,	None.
Amount of full paid stock held in Michigan at same date,	None.
Date of annual meeting of Stockholders,First Thursday after first Wednesday i	n June.
Fiscal year of company ends,—Dec. 31.	
General offices of the company are located at Detroit, Mich.	

# REMARKS.

The stock is controlled by the Canada Southern Railway Company, and the road, bridge, etc., are operated by the Michigan Central Railroad Company as a part of the Canada Southern system of roads, under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern Companies.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or a	erticles of as	ssociation,	-	<b>\$1</b> ,500,000	00
Par value of shares,	<b>\$100 00</b>				
Average price received per share,	100 00				
Number of shares issued.	4,500				
Amount paid in,		<b>\$</b> 450,000	00		
Total amount paid in, as per books Paid in per mile of road owned	of the com	ipany,	-	450,000	00
by company.—Miles,	3.66	<b>\$122,951</b>	00		

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

	-		
When Due,	Interest,		Amount,
	Rate.	Payable,	
Feb. 1, 1904	7≴	Feb. and Aug.	\$1,000,000
· <b></b>	- <b></b>		\$1,000,000
		Rate.	When Due, Rate. Payable.

# UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
		·
For Construction		
For Equipment		; 
For Beal Estate		
For Benewals		l
For Miscellaneous	Interest on bonds	\$1,050,000 00
For Current Balances		68,368 89
		\$1,118,368 89

#### RECAPITULATION.

Total funded debt, Total unfunded debt	-	- -	-	- -	-	-	\$1,000,000 00 1,118,368 89
Total debt liabilities	,	-	-	-	-	-	\$2,118,368 89
Amount of debt liabilities miles),	es p	er mile	• <b>of</b>	road (	3.66 -	-	<b>\$</b> 578,789 00
Total amount of stock and debt per mile	k ar	nd debi ad (3.	t, 66 m	iles),	-	- -	\$2,568,368 89 701,740 00

#### INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year? \$70,000.00. Was it paid for the last year? No.

If interest is in default state the years and amounts as follows: Coupons due 1875 to 1889, inclusive, at \$70,000.00 per annum.

# COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction	;	<b>\$1</b> ,780,977 <b>0</b> 5
Average cost per mile of road, not including sidings (3.66 miles),	2	486,606 00 1,780,977 05

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: September, 1873.

# MAIN LINE.

Length completed in Michigan,	Miles, 100ths, M _ 3.66	illes. 100ths,
Total length completed,		3.66
Total length of road belonging to this company, -		3.66
Total length of road belonging to this company, in Michigan, Aggregate length of sidings, spurs, and other tracks not above enumerated, Same in Michigan, Aggregate length of tracks belonging to this company, computed as single track,	3 66 9 06	9 06
Same in Michigan, Gauge of track, 4 feet 8½ inches.	12 72	

STATE OF NEW YORK, SS.

Charles F. Cox, Secretary and Treasurer of the Canada Southern Bridge Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said, company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. s. of R. R.] Signed, C. F. COX, Secretary and Treasurer.

Subscribed and sworn to before me this 7th day of March, A. D. 1890. [L. s.] D. W. PARDEE,

Notary Public, Kings Co., cert. filed in N. Y. Co.

#### OF THE

# DETROIT & BAY CITY RAILROAD COMPANY.

For the Year ending December 31, 1889.

[Filed March 18, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, CORNELIUS VANDERBILT, New York City, N. Y. Vice President, HENRY B. LEDYARD, Detroit, Mich. Secretary and Treasurer, EDWIN D. WORCESTER, New York City, N. Y.

#### DIRECTORS.

CORNELIUS VANDERBILT, New York City, N. Y.
WILLIAM K. VANDERBILT, New York City, N. Y.
HENRY B. LEDYARD, Detroit, Mich.
CHAUNCEY M. DEPEW, New York City, N. Y.
SAMUEL F. BARGER, New York City, N. Y.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, May 21, 1871.

Number of Stockholders at date of last election, 7

Number of Stockholders in Michigan at same date, 4

Amount of full paid stock held in Michigan at same date, 400 shares.

Date of annual meeting of Stockholders,—First Thursday after first Wednesday in May.

Fiscal year of company ends,—December 31.

General offices of the company are located at Detroit, Mich., and New York City.

#### REMARKS.

Under an agreement dated March 10, 1881, the Detroit & Bay City Railroad Company transferred the possession and control of its railroad and property to the Michigan Central Railroad Company. The latter company agreed to operate the same during its corporate existence. Under the terms of this agreement, the Michigan Central Railroad Company is authorized and agrees to issue its bonds to the amount of \$4,000,000.00, and both companies have joined in the execution of a mortgage upon all the Detroit & Bay City Railroad Company's property to secure the payment of said bonds.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or Par value of shares, Average price received per	articles of a \$100	ssociation,	-	<b>\$</b> 2,000,000 <b>00</b>
share,	100			
No. of shares isued,	20,000			
Amount paid in on common,	-	\$2,000,000	00	
Total amount paid in, as per book Paid in per mile of road owned by (miles 146.32)		*13,668	67	2,000,000 00

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

The Michigan Central Railroad Company has issued its bonds to the amount of \$4,000,000.00 secured by a first mortgage on the property of the Detroit & Bay City Railroad Company.

Unfunded debt, No	ne.
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#### RECAPITULATION.

Total amount of stock and debt,	_			_	_		<b>\$2,000,000</b>	00
Stock and debt per mile of road	(146.32)	miles),	_	-		_	13,668	67

# COST OF ROAD AND EQUIPMENT.

Included in Michigan Central Railroad Company's report.

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Detroit and Bay City, July 31, 1873.

MAIN LINE.			
Length completed in Michigan,	-	Miles, 100ths, Miles, 109 00	iles, 100ths,
Total length completed,	•	-	109 00
BRANCHES.			
Saginaw Branch from Denmark Junction to	East Sa		
inaw,	• -	16 75	
Caro Branch from Vassar to Caro,	_	<b>12</b> 75	
Detroit Belt Line,	_	4 39	
Bay City Belt Line,	-	3 43	
Total length of branches owned by compa	ıny,	-	<b>37 32</b>

Mil	es. 100t	18. M	iles. 100ths.
Total length of branches owned by company in Mich-			
gan,	37	32	
Total length of road belonging to this company,	_		146 3 <b>2</b>
Total length of road belonging to this company in Mich-			
gan,	146	32	
Leased—Bay City Street Railway,	5	10	
Aggregate length of sidings, spurs, and other tracks not			
above enumerated,	_		42 22
Same in Michigan,	42	22	
Aggregate length of tracks belonging to this company,			
computed as single track,			188 54
Same in Michigan,	188	54	100 01
Gauge of track, 4 feet, 81 inches.	100	01	
Cauge of Mack, 4 1000, og Mc1005.			

STATE OF NEW YORK, CITY AND COUNTY OF NEW YORK, ss.

Cornelius Vanderbilt, President, and Edwin D. Worcester, Secretary of the Detroit & Bay City Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, C. VANDERBILT, President,

[L. S. OF R. R.] Signed, C. VANDERBILT, President, E. D. WORCESTER, Secretary.

Subscribed and sworn to before me this 5th day of March, A. D. 1890.

[L. S.] D. W. PARDEE,

Notary Public, Kings Co., cert. filed in New York Co.

OF THE

# GRAND RIVER VALLEY RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed March 18, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICE.

President, AMOS ROOT, Jackson, Mich. Secretary and Treasurer, E. W. BARBER, Jackson, Mich.

#### DIRECTORS.

Amos Root, Jackson, Mich.
Edward W. Barker, Jackson, Mich.
W. H. Withington, Jackson, Mich.
Austin Blair, Jackson, Mich.
Edward S. Lacey, Charlotte, Mich.
Homer G. Barber, Vermontville, Mich.
Nathan Barlow, Hastings, Mich.

Terms expire October, 1890.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—May 4, 1846.								
Number of stockholders at date of last election,	-	42						
Number of stockholders in Michigan at same date,	-	26						
Amount of full paid stock held in Michigan at same date,	-	<b>\$325,250 00</b>						
Date of annual meeting of stockholders,—First Monday in October.								
Fiscal year of company ends December 31.								
General offices of the company are located at Jackson, Michigan.								

#### REMARKS.

This road is operated under a perpetual lease by the Michigan Central Railroad Company, the lessee having assumed all obligations and having entire control of the road.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, - Par value of shares, · \$50 00 Average price received per share, 50 00 No. of shares issued, 9,284 00 Amount paid in on common, \$491,200 00	<b>\$</b> 1,000,000 <b>00</b>
Total amount paid in, as per books of the company,	491,200 00
Paid in per mile of road owned by company (83.79 Miles), \$8,862 27	

# ANYLSIS OF DEBT ACCOUNT.

# FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When	Due.	Where	Payable.	Amot	ınt.
*First mortgage. First mortgage.		Sept. 1, 19 Sept. 1, 19	009	New New	York York	\$50 1,00	0,000 0,000
Total funded debt		· • • • • • • • • • • • • • • • • • • •				\$1,50	0,000
This is not in fact a debt of this compar company by its agreement with this compar mortgage on the property of this company.	ny, but rony, is obl	epresents be igated to p	onds of the say, but th	M.C.I	R. R. Co. v	which cured	that by a
Unfunded debt,				-		No	ne.
REC	APITUI	ATION.					
Total funded debt,		-		-	<b>\$1,50</b> 0	,000	00
Total debt liabilities, - Amount of debt liabilities per m	ile of r	oad (83.7	79 miles	- ), -	\$1,500 17	),000 ',900	
Total amount of stock and debt, Stock and debt per mile of road,		, -				,200 3,762	
Interest	on the F	unded De	bt.				
What is the amount of same due Was it paid for the last year?		year, .		-	<b>\$</b> 90	,000	00
COST OF RO	AD AN	D EQUI	PMENT.				
Total Cost for Construction and Equi	pment o	f Road ar	nd Branc	hes Bı	ilt by C	ompo	ıny.
Total expended for construction Average cost of construction per				- dino	\$2,867	,053	00
sidings—83.79 miles), *Proportion of cost for Michigan	_		-	-	34 2,867	,229 ,053	

<sup>\*\$1,500,000</sup> of this amount is included in report of Michigan Central Company, as amount expended on account of leased lines.

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Jackson to Grand Rapids.

#### MAIN LINE.

Length completed in Michigan,	M	iles. 100ths. 1	Miles. 100ths.
zongu completed in zirongun,	-		
Total length completed,	_	- <b>-</b>	83 79
Total length of road belonging to this company,	_		83 79
Total length of road belonging to this company	in		
Michigan,	_	83 79	
Aggregate length of sidings, spurs, and other tra	$\mathbf{cks}$		
not above enumerated,	_	_	15 <b>56</b>
Same in Michigan,	_	15 56	
Aggregate length of tracks belonging to this compa	anv		
computed as single track,		_	99 35
Same in Michigan,	_	99 35	
Gauge of track, 4 feet 81 inches.	-	., 00	

STATE OF MICHIGAN, \ SS. COUNTY OF JACKSON, \ SS.

Amos Root, President, and E. W. Barber, Secretary, of the Grand River Valley Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1890, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, AMOS ROOT, President,

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E. W. BARBÉR, Secretary.

Subscribed and sworn to before me this 6th day of February, A. D. 1890.

J. M. ROOT,

Notary Public.

#### OF THE

# JACKSON, LANSING & SAGINAW RAILROAD COMPANY,

For the Year Ending December 31, 1889.

### [Filed March 18, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, HENRY A. HAYDEN, Jackson, Mich. Secretary, ORLANDO M. BARNES, Lansing, Mich. Treasurer, WM. D. THOMPSON, Jackson, Mich. Transfer Agent, HENRY PRATT, New York City.

#### DIRECTORS.

CORNELIUS VANDERBILT, New York City.

James F. Joy, Detroit, Mich.

HENRY B. LEDYARD, Detroit, Mich.

HENRY Å. HAYDEN, Jackson, Mich.

WM. D. THOMPSON, Jackson, Mich.

PETER B. LOOMIS, Jackson, Mich.

ORLANDO M. BARNES, Lansing, Mich.

Terms expire second Tuesday in January, 1890.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Feb. 23, 1864.			
Number of stockholders at date of last election,	-	-	33
Number of stockholders in Michigan at same date,	-	-	21
Amount of full paid stock held in Michigan at same date,	-	\$1,806,600	00
Date of annual meeting of stockholders-Second Tuesday in January			
Fiscal year of company ends,—Calendar year.			
General offices of this company are located at Lansing. Mich.			

#### REMARKS.

The Michigan Central Railroad Company operate the company's road under an agreement which went into operation September 1, 1871.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association,	<b>\$2,500,000 00</b>
	Φ2,000,000 O
Par value of shares, 100 00	
Average price received per share, 100 00	
No. of shares issued, 20,000 00	
Amount paid in on common, \$2,000,000 00	
Total amount paid in, as per books of the company,	2,000,000 00
Paid in per mile of road owned by company,	• •
(295.10 miles),	

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

FU	INDED	DEBT.		
Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.
Consolidated mortgage bonds.  Bonds of May 1, 1881.	8% 6%	Sept. 1, 1891 Sept. 1, 1891		
Total funded debt.	<i>,</i> 			
UNE	UNDED	DEBT.		
Unfunded debt,	-			None.
REC	APITU	LATION.		
Total funded debt,	-		\$2,41	9,000 00
Total debt liabilities, Amount of debt liabilities per m	ile of	road (295.10 mi		9,000 <b>00</b> 8,197 <b>22</b>
Total amount of stock and debt, Stock and debt per mile of road				9,000 00 4,974 58
. Interest	on the	Funded Debt.		
What is the amount of same due \$1,475,000 and 6% on the \$94- each year \$174,640 00. Was it paid for the last year? I	4,000.	year? The inte Make the amou	erest is 8% unt of inter	on the rest due
COST OF RO	AD AN	ND EQUIPMENT		
Total cost for Construction and Equi	oment o	of Road, and Bran	ches Built by	Compan <b>y.</b>

Total	l cost f	or (	Construct	ion and	Equ	ipment	of .	Road	l, and	Brance	hes I	Bui	$\iota\iota$	by (	Company	•
-------	----------	------	-----------	---------	-----	--------	------	------	--------	--------	-------	-----	--------------	------	---------	---

	<b>\$</b> 8,154,659	02
Average cost of construction per mile of road (not includ-		
ing sidings—295.10 miles),	27,633	<b>54</b>
Proportion of cost of construction for Michigan,	8,154,659	<b>56</b>

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Jackson and Mackinaw, December 31, 1882.

#### MAIN LINE.

Length completed in Michigan,		-	-	-	Mi	295 295		iles. 100	ths.
Total length completed,		-	-	•	-	-		295	10
Total length of road belonging to Total length of road belonging Michigan,	o thi z to	this	pany comp	, oany	in	- 295	10	295	10
Aggregate length of sidings, spinot above enumerated, Same in Michigan,		-	-	-	-	190	11	190	11
Aggregate length of tracks belon computed as single track, Same in Michigan, Gauge of track, 4 feet 8½ inches.		g to ti	118 CO - -	mpar	ıy, - -	485	21	<b>4</b> 85	21

STATE OF MICHIGAN, ) SS. COUNTY OF JACKSON, )

H. A. Hayden, President, and O. M. Barnes, Secretary, of the Jackson, Lansing & Saginaw Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1890, to the best of their knowledge and belief.

H. A. HAYDEN, President, [L. S. OF R. R.] Signed,

O. M. BARNES, Secretary.
Subscribed and sworn to before me this 4th day of Eebruary, A. D. 1890.
W. C. LEWIS,

Notary Public.

#### OF THE

# KALAMAZOO & SOUTH HAVEN RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed March 18. 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ASHLEY POND, Detroit, Mich. Secretary and Treasurer, D. A. WATERMAN, Detroit, Mich.

#### DIRECTORS.

C. VANDERBILT, New York City, N. Y.
ASHLEY POND, Detroit, Mich.
H. B. LEDYARD, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
D. A. WATERMAN, Detroit, Mich.
JAMES CLEMENTS, Ann Arbor, Mich.
F. S. WINSTON, Chicago, Ill.

Terms expire when successors are elected.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, -April 15th, 1869.	
Number of stockholders at date of last election,	- 202
Number of stockholders in Michigan at same date,	- 124
Amount of full paid stock held in Michigan at same date,	<b>\$325,4</b> 00
Date of annual meeting of stockholders,—Second Wednesday in March.	
Fiscal year of company ends,—December 31.	
General offices of the company are located at Detroit, Mich.	

### REMARKS.

Leased to the Michigan Central Railroad Company, July 1, 1870, that company agreeing to complete, operate, pay the interest on bonds, pay taxes, etc., the same as if actual owners.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00 Average price received per share, \$100 00 Number of shares issued, \$25,400 00 Amount paid in on common, \$325,400 00	\$500,000 00
Total amount paid in as per books of the company,	<b>\$</b> 325,400 00
Paid in per mile of road owned by company, (39.50 miles), \$8,237 97	

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character and Date of Issue.	Rate of	Wh	en Due	_	Where	Payable.		n <b>t.</b>
Second mortgage bonds, Nov. 1, 1870	Interest.	Novemi	vember 1, 1890		<u></u>			
Total funded debt.	1						\$70,000	00
Unf	UNDED	DEBT.	•			,		
Unfunded debt,	_	-	-	-	_	-	No	ae.
REC	APITUL	ATION.						
Total funded debt,	_	-	-	_	-	\$70	0,000	00
Total debt liabilities,	_	•	_	_	_	\$70	0,000	00
Amount of debt liabilities per n	aile of	road	(39.5	0 mi	les),		1,772	15
Total amount of stock and debt, Stock and debt per mile of road,			-	<u>-</u>	-		5, <b>400</b> 0,010	
Interest	on Fu	nded L	ebt.					
What is the amount of same due Was it paid for the last year?	e each	year,	-	-	<del>-</del>	\$	5,600 Y	00 es.
COST OF RO	AD A	ND EQ	UIPN	ŒŊΊ	c.			
Total cost for construction and equ	ipment	of roa	d, and	l bra	nches i	built by	compa	ny.
Total expended for construction,			- <del>-</del>	. <u>-</u>		<b>\$</b> 39	5,400	00
Average cost of construction per ing sidings) 39.50 miles, Proportion of cost of construction	_	_	-	ot ind	elud- - -		0,010 5, <b>400</b>	

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January 2, 1871, Kalamazoo to South Haven.

#### MAIN LINE.

Length completed in Michig Total length completed,	an	<u>-</u>	-	-	39.50	39.50
Total length of road belonging	ng to t	his co	mpan	ıy,		39.50
Total length of road belonging in Michigan, Aggregate length of sidings,	_	_		-	39.50 ks not	
above enumerated, Same in Michigan,	-	-	-	-	4.17	4.17
Aggregate length of tracks length as single track,	belong	ing tl	nis co	mpany	, com-	43.67
Same in Michigan,	-	-	-	-	43.67	

Gauge of track, 4 feet 8½ inches.

STATE OF MICHIGAN, County of Wayne, ss.

Ashley Pond, President, and D. A. Waterman, Secretary, of the Kalamazoo & South Haven Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

ASHLEY POND, President.
D. A. WATERMAN, Secretary.

Subscribed and sworn to before me this 15th day of March, A. D. 1890. GEO. L. NADOLLECT, Notary Public.

OF THE

# MICHIGAN AIR LINE RAILROAD COMPANY.

For the Year Ending December 31, 1889.

[Filed March 18, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich. Secretary and Treasurer, D. A. WATERMAN, Detroit, Mich.

#### DIRECTORS.

C. VANDERBILT, New York City, N. Y.

E. D. WORCESTER, New York City, N. Y.

H. B. LEDYARD, Detroit, Mich.

ASHLEY POND, Detroit, Mich.

HENRY RUSSEL, Detroit, Mich.

J. W. FRENCH, Three Rivers, Mich.

D. A. WATERMAN, Detroit, Mich.

Elected October 16, 1889.

Terms expire when successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—August 25, 1868, and October 11, 1870.

- \* Number of stockholders at date of last election.
- \*Number of stockholders in Michigan at same date.
- \*Amount of full paid stock held in Michigan at same date.

Date of annual meeting of stockholders,—Third Wednesday in October.

Fiscal year of company ends, December 31.

General offices of the company are located at Detroit, Mich.

#### REMARKS.

This property is under perpetual lease to the Michigan Central Railroad Company, and has been so leased since its construction.

The Michigan Central now holds a majority of the stock, and control of the property, however the books were received in so imperfect a condition, the present management is unable to furnish all the information required by this form.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter	or	artic	les of ass	sociation,	<b>\$4,000,000 00</b>
Par value shares,	_		<b>\$</b> 50 00	,	, ,
Number of shares issued,			$7,855\frac{1}{4}$		
Amount paid in on common,	-	_	-	Unknown.	
			-		
Paid in per mile of road owned	l by	com	pany,	Unknown.	

# ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When Due.	Where Payable.	Amount.			
Mortgage bonds, Oct. 10. 1870	8%	Nov. 1, 1890	New York	\$200,000 00			
Total funded debt			• • • • • • • • • • • • • • • • • • • •	\$200,000 00			
	• •=	-					
UNFUNDED DEBT.							

Unfunded Debt,	-	-	-	-	-	-	-	-	None.
	INT	erest	ON	THE	FUNDED	DEBT	<b>`</b> .		
What is the amount Was it paid for the	due last	each year?	yea: Y	r, 98.	-	-	-	-	<b>\$</b> 16,000 00

# COST OF ROAD AND EQUIPMENT.

Cost of road and equipment,	-	-	-	-	-	Unknown.
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# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Jackson to Niles, January, 1871.

# MAIN LINE.

Length completed in Michigan, Length completed in Indiana,	109	ths. Miles. 100ths. 10 06
Total length completed,	-	115 16
Total length of road belonging to this company, Total length of road belonging this company in Michigan,	109	115 16 10
Aggregate length of sidings, spurs, and other tracks not above enumerated,  Same in Michigan,	15	70 17 28
Aggregate length of tracks belonging to this company, computed as a single track,  Same in Michigan,  Gauge of track, 4 feet, 8½ inches.	124	132 44 80

STATE OF MICHIGAN, SS. COUNTY OF WAYNE.

H. B. Ledyard, President, and D. A. Waterman, Secretary, of the Michigan Air Line Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1890, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

H. B. LEDYARD, President. D. A. WATERMAN, Secretary.

Subscribed and sworn to before me this 15th day of March, A. D. 1890.
GEO. L. NADOLLECT,
Notary Public, Wayne County, Michigan.

OF THE

# MICHIGAN MIDLAND & CANADA RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed March 18, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York.

Secretary and Treasurer, CHARLES F. COX, New York.

Transfer Agent, LANDRETH H. KING, New York.

# DIRECTORS.

CORNELIUS VANDERBILT, New York, N. Y.
WILLIAM K. VANDERBILT, New York, N. Y.
JAMES TILLINGHAST, Buffalo, N. Y.
SAMUEL F. BARGER, New York, N. Y.
CHARLES F. COX, New York, N. Y.
EDWIN D. WORCESTER, New York, N. Y.
EDWARD A. WICKES, New York, N. Y.
CHARLES C. CLARKE, New York, N. Y.
Terms expire June, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—dated Se	ptemb	er 17,	1872			
Number of stockholders at date of last election,	-	-	-	-	-	29
Number of stockholders in Michigan at same date,	-	-	-	-	-	3
Amount of full paid stock held in Michigan at same date	э, -	-	-	222	shar	<b>'es</b> .
Date of annual meeting of stockholders,—First Thursday	after f	irst W	edne	sday	in Ju	ne.
Fiscal year of company ends,December 31.						
General offices of the company are located at Detroit, M	ichigan	١.				

# REMARKS.

The stock is controlled by the Canada Southern Railway Company, and the road is operated by the Michigan Central Railroad Company as a part of the Canada Southern system of roads, under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern Companies.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00	<b>\$4</b> 00,000	00
Average price received per share, 100 00		
Number of shares issued, 3,000		
Amount paid in, \$300,000 00		
Total amount paid in as per books of the company,	300,000	00
Paid in per mile of road owned by		
company, miles, 14.68 20,435 96		

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.
First mortgage coupon bonds, dated July 1, 1873, and scrip	7%	July 1, 1900, interest July and January	New York	\$323,685 00
Total funded debt				\$828,685 00

# UNFUNDED DEBT.

	For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
For For	construction equipment real estate		
For For	renewals	Interest on bonds	\$249.335 00
•	Total unfunded debt		<b>\$391,401</b> 5 <b>3</b>

# RECAPITULATION.

Total funded debt,	<b>\$</b> 323,635 00 391,401 53
Total debt liabilities, Amount of debt liabilities per mile of road (14.68 miles),	\$715,036 53 48,708 21
Total amount of stock and debt, Stock and debt per mile of road (14.68 miles),	\$1,015,036 53 69,144 17
INTEREST ON THE FUNDED DEBT.	
What is the amount of same due each year, Was it paid for the last year? No. If interest is in default state the years and amounts as follows 1873, \$4,025; 1874, \$9,765; 1875, \$20,300; 1876, \$21,490; each; 1879, \$22,575; 1880-9, \$22,610 each.	\$22,610 00 ws: 1877-8, \$22,540

# COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road, and B	ranche	s Bui	lt by Company.
Total expended for construction,	_	_	<b>\$</b> 586,342 <b>02</b>
Average cost of construction per mile of road (not in	cludir	ng	00.047 70
sidings—14.68 miles),	-	-	39,941 56
Proportion of cost of construction for Michigan.	-	_	586,3 <b>42 02</b>

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: St. Clair to Ridgeway, Michigan, Dec. 4, 1874.

# MAIN LINE.

Length completed in Michigan,	Miles. 100ths. 14 68	Miles. 100ths.
Total length completed,		14 68
Total length of road belonging to this company, Total length of road belonging to this company		14 68
in Michigan, Aggregate length of sidings, spurs, and other tracks not above enumerated,	14 68	81
Same in Michigan, Aggregate length of tracks belonging to this	81	01
company, computed as single track, Same in Michigan, Gauge of track in Michigan, 4 feet 8½ inches.	15 49	15 49

STATE OF NEW YORK, Solution State of New York, ss.

Charles F. Cox, Secretary and Treasurer, of the Michigan Midland and Canada Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, C. F. COX, Secretary and Treasurer.
Subscribed and sworn to before me this 7th day of March, A. D. 1890.
Signed, D. W. PARDEE,

Notary Public, Kings Co., cert. filed in New York Co.

#### OF THE

# SAGINAW BAY & NORTHWESTERN RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed March 18, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ASHLEY POND, Detroit, Mich. Secretary, Treasurer and Transfer Agent, D. A. WATERMAN, Detroit, Mich.

#### DIRECTORS.

H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
D. A. WATERMAN, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
W. R. VAUGHAN, Bay City Mich.
Elected January 6, 1885—No meeting of stockholders since.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—November 27, 1884.	
Number of stockholders at date of last election,	- 8
Number of stockholders in Michigan at same date,	- 7
Amount of full paid stock held in Michigan at same date,	<b>\$1,200</b>
Date of annual meeting of stockholders,—First Thursday after first Wednesday	in May.
Fiscal year of company ends December 31.	
General offices of the company are located at Detroit, Mich., and Bay City, Mich.	h.

# REMARKS.

The stock is controlled and the road operated by the Michigan Central Railroad Company.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of asse Par value of shares, \$100 00 Average price received per share, 100 00 No. of shares issued, 2,000 Amount paid in on common,	\$200,000 00
Total amount paid in as per books of the comp	pany, 200,000 00
Paid in per mile of road owned by company (89.31 miles),	<b>\$</b> 2,239 39
ANALYSIS OF DEBT ACCOU	INTS.
FUNDED DEBT.	
Funded debt,	None.
UNFUNDED DEBT.	
Unfunded debt,	None.
RECAPITULATION.	
Total amount of stock and debt, Stock and debt per mile of road (89.3 miles),	\$200,000 00 2,239 39
COST OF ROAD AND EQUIP	
Total cost for Construction and Equipment of Road, and	l Branches Built by Company.
Total expended for construction as per books of pany,  Average cost of construction per mile of road (ring sidings - 89.31 miles),  Proportion of cost of construction for Michigan,	\$225,526 15 not includ- 2,525 20
DESCRIPTION OF ROAD	
Date when the road was opened for use between May, 1879.	its present termini:
MAIN LINE.	
Length completed in Michigan, Total length completed,	Miles. 100ths. Miles. 100ths. 28.72

# BRANCHES

Sundry branches from main line to forest terminals, Total length of branches owned by company,	60.59	60.59
Total length of branches owned by company in Michigan, Total length of road belonging to this company,	60.59	89.31
Lotal length of road belonging to this company in Michigan, Aggregate length of sidings, spurs, and other	89.31	2.59
tracks not above enumerated, Same in Michigan, Aggregate length of tracks belonging to this company, computed as single track,	2.59	91.90
Same in Michigan, Gauge of track, 4 feet 8½ inches.	01.90	

STATE OF MICHIGAN, COUNTY OF WAYNE, Ss.

Ashley Pond, President, and D. A. Waterman, Secretary, of the Saginaw Bay & Northwestern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, ASHLEY POND, President. D. A. WATERMAN, Secretary.

Subscribed and sworn to before me this 15th day of March, A. D. 1890.

[L. s.] Signed, GEO. L. NADOLLECT,

Notary Public.

#### OF THE

# TOLEDO, CANADA SOUTHERN & DETROIT RAILWAY, COMPANY,

For the Year ending March 31, 1889.

[Filed March 18, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York.

Secretary and Treasurer, CHARLES F. COX, New York.

Transfer Agent. LANDRETH H. KING, New York.

### DIRECTORS.

CORNELIUS VANDERBILT, New York City.
WILLIAM K. VANDERBILT, New York City.
JAMES TILLINGHAST, Buffalo, N. Y.
SAMUEL F. BARGER, New York City.
CHARLES F. COX, New York City.
EDWIN D. WORCESTER, New York City.
EDWARD A. WICKES, New York City.
CHAUNCEY M. DEPEW, New York City.
ALLYN COX, New York City.
Terms expire June, 1890.

# STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—Consolidation (July 19, 1872) of the Detroit and State Line R. R. Co. of Michigan, and the Junction Ry. Co. of Ohio.

Number of Stockholders at date of last election,

Number of Stockholders in Michigan at same date,

None.

Amount of full paid stock held in Michigan at same date,

None.

Date of annual meeting of Stockholders,—first Thursday after first Wednesday in June.

Fiscal year of company ends,—December 31.

General offices of the company are located at Detroit, Michigan.

\$1,756,565 91

#### REMARKS.

The stock is controlled by the Canada Southern Railway Company, and the road is operated by the Michigan Central Railroad Company as a part of the Canada Southern system of roads, under an agreement for joint operation, made December 12, 1882, between the Michigan Central and Canada Southern Companies.

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares,\$100 00	<b>\$2,000,000 00</b>
Average price received per share, 100 00	
No. of shares issued, 15,4768 Amount paid in on common, \$1,547,662 50	
Total amount paid in, as per books of the company,	<b>\$1</b> ,5 <b>4</b> 7,662 50
Paid in per mile of road owned by company,—miles, 55.87, \$27,701 13	

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due.	Where Payable,	Amount Outstanding.
First mortgage gold bonds coupon dated August 1, 1872	75	January 1, 1906, Interest Jan.& July	New York	\$1,500,000 00 11,787 50
Total funded debt		· · · · · · · · · · · · · · · · · · ·	·	\$1,511,787 50
υ	NFUNDEI	DEBT.		
For what Incurred.	Is the Same	to be Funded, or How I	.iquidated.	. Amount.
For real estate.  For renewals  For miscellaneous. Int  For current balances	erest on bon	ds		

#### RECAPITULATION.

Total funded debt, Total unfunded debt,	-	-	-	-	-	\$1,511,737 50 1,756,565 91
Total debt liabilities Amount of debt liabilities		mile	o <del>i</del> ro	ad (55.8	87 miles),	\$3,268,303 41 58,498 36
Total amount of stock a Stock and debt per mile			5.87 n	niles),	-	\$4,815,965 91 86,199 49

# INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year?	\$105,000 00
Was it paid for the last year? No.	
If the interest is in default state the years and amounts as	follows:
1873, \$52,780.00; 1874 to 1889, inclusive, \$105,000.00 per an	num.

# COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

Total expended for construction,	-	_	\$3,115,069	99
Average cost of construction per mile of road (not i	includ	ing		
sidings—55.87 miles),	_	-	55,755	68
Proportion of cost of construction for Michigan,	-	_	2,635,571	14

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Springwells, Mich. to Toledo, Ohio, Sept. 1, 1873.

# MAIN LINE.

	Miles.	100ths. Mi	les. 100ths.
Length completed in Michigan,		47 27	
Length completed in Ohio,	_	8 60	
Total length completed,			<b>55</b> 87
Total length of road belonging to this company,			55 <b>87</b>
Total length of road belonging to this company in Mic	ch-		
igan,	_	47 27	
Aggregate length of sidings, spurs, and other trace	cks		
not above enumerated,	_		42 08
Same in Michigan,	_	28 09	
Aggregate length of tracks belonging to this co	m-		
pany, computed as single track,	_		97 95
Same in Michigan,	_	75 36	
Gauge of track, 4 feet 81 inches,			

STATE OF NEW YORK, SS.

1889.7

Charles F. Cox, Secretary and Treasurer of the Toledo, Canada Southern & Detroit Railroad Company being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, C. F. COX, Secretary and Treasurer.

Subscribed and sworn to before me this 7th day of March, A. D. 1890.

D. W. PARDEE,

Notary Public, Kings Co., cert. filed in New York Co.

OF THE

# MANISTIQUE RAILWAY COMPANY.

Eor the Year Ending Dececember 31, 1889.

[Filed March 20, 1890,]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, M. S. SMITH, Detroit, Mich.

Vice President, LEWIS A. HALL, Bay Mills, Mich.

Secretary and Treasurer, J. C. McCaul, Detroit, Mich.

Auditor, G. H. STALKER, Detroit, Mich.

General Superintendent, THOS. OLIVER, Seney, Mich.

#### DIRECTORS.

R. A. ALGER, Detroit, Mich.
M. S. SMITH, Detroit, Mich.
A. J. Fox, Detroit, Mich.
J. C. McCaul, Detroit, Mich.
Lewis A. Hall, Bay Mills, Mich.
R. K. Hawley, Cleveland, Ohio.

Terms expire Dec. 31, 1890.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

## GENERAL EXHIBIT.

Wadal imaama				DEBIT	r.	CREDIT. \$44,685 99
Total income, - Total expenses, including	taxes,	-	-	<b>\$24</b> ,397	82	<b>\$722,000</b> 38
Net income, Interest on unfunded deb	t,	- -	-	<b>\$2</b> ,215	89 -	<b>\$20,288 17</b>
Balance applicable to divi	idends,	-	-	-	-	18,0 <b>7</b> 2 <b>2</b> 8
Balance for the year, Balance (profit and loss) Balance forward to next y	last year, year,			- - - \$49,224	32	\$18,072 28 31,152 04
			-	<b>\$</b> 49,224	32	\$49,224 32
ANA	LYSIS OF	CAPI	TAL	STOCK.		
Amount authorized by ch Par value of shares, Number of shares issued,	arter or an	rticles \$100	of as	sociation,	-	<b>\$</b> 500,000 00
Amount paid in on comm	on, -	1,5		<b>\$150,000</b>	00	
Total amount paid in, as paid in per mile of road by company,—miles, 40	owned	of the	com	pany, \$3,680	98	150,000 00
ANA	LYSIS OF	DEB'	r ac	OUNTS.		
•	FUND	ED DI	ЕВТ.			
Funded debt,	-	-		-	-	None.
	UNFUN	DED 1	EBT.			
For What Incurred.	is the San	ne to be	Funde	d or How Isiq	nidated.	Amount.
Tot Education	To be paid					\$68,553 <b>01</b>
For Renewals For Miscellaneous For Current Balances			· · · · · · · · · · · · · · · · · · ·			
Total Unfunded Debt	····					\$68,558 OI
	RECAPI	ITULA'	rion.			
Total unfunded debt	-	-	-			\$68,553 01
Total debt liabilities, 12	-	-	_			<b>\$</b> 68,553 <b>01</b>

96 MIC	HIGAN RA	AILROAD I	RETURNS.		[Dec.	. 31,
Amount of debt liability miles),	ies permi		(40.75		<b>\$1,682</b>	28
Total amount of sto Stock and debt per mile			,		\$218,553 5,363	
GEN	ERAL BA	LANCE SH	EET.—Dr.			
Construction account, Equipment account,		-	<b>\$220,098 40,98</b> 3		\$261,081	o=
Cash items: Cash,			\$6,542	00	6,542	
Other assets:  Debit balances from c dividuals,		and in-		_	153	
Total,		<u>-</u> -	-		<b>\$267,777</b>	33
GEN	JERAT, RA	LANCE SH	EET_C			
Capital stock, Unfunded debt, Notes payable, Vouchers and accounts,			\$35,000 33,553	00 01	\$150,000 68,553	
Profit and loss or income	e accounts	, - -		-	49,224 \$267,777	
COS'	Γ OF ROAI	D AND EQ	UIPMENT.			
Total Cost for Construction			•	es Bu	ilt by Compa	ny.
Total expended for cons Average cost per mile of	truction ar	nd equipme	ent,	_	<b>\$261,081</b>	95
(40.75 miles), - Proportion of cost of con	 nstruction	for Michi	gan,	<del>-</del>	6,406 261,081	92 95
CHARGES AND CE	REDITS TO	PROPERT	TY DURING	THE	YEAR.	
	МА	IN LINE.				
Extensions and new sidi Machinery and tools, New cars,				_	\$90,081 1,322 877	10
Total charges,		٠			<b>\$</b> 92,280	<b>7</b> 5
Total charges to property Property sold and credit				-	92,280 No	
Net addition to prop	perty accou	unt, .		•	\$92,280	<b>7</b> 5

## ANALYSIS OF EARNINGS.

## PASSENGER EARNINGS.

Main line and branches:				•			
Local fares,		-	-	<b>\$482</b>	16		
Total passenger fares Total passenger depar		- rnings	-, -	<b>\$482</b>	<b>16</b>	<b>\$4</b> 82	16
Proportion for Michiga Per mile of road, -	n, -	-	-	\$482 11	16 83		
	FREIGH	T EAR	NING	8.			
35 ' 2' 11 1							
Main line and branches: Local traffic,		-	-	<b>\$44</b> ,203	83		
Total traffic,		-	-	<b>\$44,203</b>	83		
Total freight departm	ient earni	ngs,	-			<b>\$44,203</b>	83
Proportion for Michiga	n, -	_	-	<b>\$44,20</b> 3	84		
Per train mile, - Per mile of road, -		-	_	•	74		
Per mile of road, -		-	-	1,084	<b>76</b>		
Total transportation e	earnings,	-	-		-	<b>\$44</b> ,685	99
Transportation earnings p Transportation earnings p			-	1,096	59 74		
Total earnings from o	peration	of roa	d,	<b>\$44,685</b>	99		
Total earnings per mile of Total earnings per train n		-	-	1,096	59 74		
Proportion of taxable earnings per train in Total taxable earnings per	ings for M	lichiga	n,	44,685			
Michigan,		- -	-	1,096	59		
Total income from all Proportion of income for	sources, Michigan	- l <b>,</b>	-		-	\$44,685 44,685	99 99
A	NALYSIS	OF E	XPE	NSES.			
Class 1.	Maintenan	ce of W	'ау а	nd Building	ж.		
Repairs of road way and t Renewals of rails,	rack,			-	1		
Renewals of ties, Repairs of bridges, include Repairs of fences, road cro- Repairs of buildings,	ing culver essings, a	rts and	l cati	tle guards,	!	. <b>\$27</b> 8	02
Total,		_	-			<b>\$278</b>	02

## CLASS 2.—Maintenance of Motive Power and Cars.

CLASS Z.—MUINU	enanc	e of M	ouve	rower a	ina Cars.		
Repairs of locomotives, Repairs of passenger cars,	-	-	-	-		<b>\$2,92</b> 8	50
Repairs of freight cars,	-	-	-		1		
Total,	_	_	_	-		\$2,928	50
Class 3.—	Conda	uctiona	Teans	enortati	04		
	Contai	ucting	11416	portati	on.		
Fuel for locomotives,		-	-		)		
Water supply,	-	-					
Oil and waste,		_			Ī		
Locomotive service,		-	-	-			
Passenger train service,		-	-		•		
Passenger train supplies,		-			- !		
Mileage of passenger cars,		-			•		
Freight train service,	-	-			1	<b>\$19,815</b>	Q.4
Freight train supplies,	-	-	-	-	1	619,019	(/ <u>T</u>
Mileage of freight cars,	-	-	_	-	_		
Telegraph expenses (maintena	ance	and o	perat	ing),	_ '		
Damage and loss of freight ar	nd b	aggag	ē,	-			
Damages to property and catt	le,	-		-	-		
Personal injuries,	,				_		
Agents and station service,			_				
Station supplies,	_				j		
71					•		
Total,	_		_	_	_	<b>\$19,81</b> 5	84
					-	<b>,</b>	-
CLASS	4.—6	<del>Ie</del> nera	l $Expe$	enses.			
Salaries of the general officers	of t	he co	mpan	y,		<b>\$</b> 675	
Insurance,		-			=		00
Contingencies, Taxes,	•	-			-	631	51 95
Total,	•		-	-		<b>\$1,37</b> 5	46
• RECAPIT	'ULA'	rion (	OF EX	PENSES			
					Per Cent of Expenses.		
Maintenance of way and build	ungs	, -	-		1.14	<b>\$278</b>	
Maintenance of motive power	and	cars,	-		<b>12.</b>	2,928	
Conducting transportation,	-		-		81.22	19,815	
General expenses, including t	axes,	, -			5.64	1,375	<b>4</b> 6
Total operating expenses, as	nd ta	xes,	-	-	100.00	<b>\$24,397</b>	82
Omanatina anno			e				
Operating expenses and taxe	es pe	er mil	e or		9500 F3		
road,			••	,	\$598 72		
Operating expenses and taxes							
run, for trains earning rev	venue	e ( <b>60</b> ,	,000				
miles),	-		-		41		
Proportion of operating exper	ises e	and to	axes				
for Michigan, main line,		-	-	<b>\$</b> 24	,397 82		

Total proportion of expenses fo			1,	_		<b>\$24,</b> 397	82
Percentage of expenses to earn	ings,		-		<b>54.60</b>		
Net earnings per mile of road,	_	_	_	:	<b>\$4</b> 97 87		
Net earnings per train mile,	-	-			34		

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Main River Landing, H. & B. Camp 18, Dec. 10, 1889.

MAIN LINE.			
)	files, 100	ths, M	illes, 100ths,
In Michigan:			
Main River Landing to H. & B. Camp 18,	32.00	)	
Total length completed,	0		32.00
Total length completed,	-		02.00
BRANCHES.			
From Camp 7 switch to Camp 7,	1	50	
From Camp 13 to south terminal,	_	25	
From Camp 15 to south terminal,	_	00	
From Camp 10 to south terminal,	_	00	
From main line to Camp 32,	1	00	
From main line to Camp 10,	3	00	
1 ,			
Total length of branches owned by company,  Total length of branches owned by company in Mich-	-		8 75
gan,		75	
Total length of road belonging to this company,		-	40 75
Total length of road belonging to this company in Mich-	•		10 10
		<b>7</b> 5	
gan,		19	
Aggregate length in Michigan, of sidings, spurs, and			
other tracks not above enumerated,	_		1 00
Aggregate length of tracks in Michigan belonging to this			
company, computed as single track,			41 75
Gauge of track, 4 feet, 81 inches.	-	•	
Cauge of Mack, 4 feet, og menes.			
	Total B	f11ae '	In Michigan.
The second secon			
Total miles operated by the company,	40	<b>7</b> 5	40 75
Number of Bridges and Trestles in Michigan	ı. <b>.</b>		
THE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			040.00
Wooden bridges, number of 2; Aggregate length, feet,	-		<b>240 00</b>
<del></del>			
Total, 2;	-		<b>24</b> 0 <b>00</b>
Draw Bridges in Michigan.			
How many on your line?			None.
arow many on your mile.	-	-	TIOHE.
Organian Pailwad and Highman			
Crossings-Railroad and Highway.			

What railroads cross your road at grade in this State, and at what locality? Duluth, South Shore & Atlantic R. R., at Seney.

At what crossings are in None yet.	terlocking a	ad derail	ling switcl	nes in operat	tion?
Number of crossings of h	nighways at	grade in	this State	, -	3
	Sta	tions.			
Number of stations on w Same in Michigan,				. <u>.</u>	<b>8</b>
	Emp	oloyés.			
Number of persons regul by company, including Same in Michigan,	arly employ officials,	ed on all	roads op	erated - -	46 46
Classify your employes a	s per follow	ing list:			
Brakemen, Conductors, Engineers, Firemen, Laborers,					Number. 3 3 3 3 29
	REPAIRS AN	D RENEW	VALS.		
	Fencing in	n Michiga	ın.		
How many miles of fenc	ing have yo	u? Non	ıe.		
	Road Bed	and Trac	ck.		
Number of track sections Average length of section Average number of men New rails put in track:	ns (miles),		-	- 	4 8 4
Steel (tons, 140.4), mil Total miles of track laid	les, with new rai	ils,			16 16
•	Bridges a	nd Culver	·ts.		
New bridges built during	g the year,				1
Location	 <b>Kin</b> d	ı. ¦	Material.	Month Built.	Feet in Length.
Seney	Wood pile	s30	ft. steel girder.	October	190
Total		-		·	 190

ROLLING STOCK.		
Number of locomotives of more than 30 tons	Number.	Present Estimated Value.
weight, exclusive of tender,	2	<b>\$14,962</b> 99
Total,	2	<b>\$14</b> ,962 99
Number of platform cars, Number of conductors' way cars,	57 1	19,729 71 877 00
Total,	58	<b>\$</b> 35,569 70
Number of locomotives equipped with power brakes,	2	•
What patterns of power breaks have you in use, and n and cars with each? American Steam Brake Compa No cars.	umber o ny. Lo	f locomotives comotives—2.
MILEAGE, TRAFFIC, ETC.		
Train Mileage.		
Miles run by freight trains during the year, Total mileage of trains earning revenue,	-	60,000 60,000
Passenger Traffic.		
Number of local passenger carried, . Numbers and Quantities 1,004	. Miles.	Rate. Dollars. ('ents.
Total number of passengers carried, 1,004		
Total passenger mileage, or passengers carried one mile Average distance traveled by each passenger, Average amount received from each passenger, Average rate of fare per mile for local passengers, Average rate of fare per mile for all passengers,		48 12 \$00.48 00.04 00.04
Freight Traffic.		
Number of tons of local freight carried, 139,08	_	Rate. Dollars. Cents.
Total tons of freight carried, 139,08 Total mileage of local freight,	0 1,420,6	58
Total freight mileage, or tons carried one mile, Average ton haul for local freight, Average ton haul for all freight, Average amount received for each ton haul, Average rate per ton per mile, received for local freight, Average rate per ton per mile, received for all freight,		\$0 32 03 03

100.00

## Freight Forwarded at Michigan Stations

Freight Forwaraea	at micniga	n Stations.	
Lumber and forest products, Lumbermen's supplies,			Tons. 137,115 1,965
Total forwarded,	-	-	139,080
Tonnage of Articles Tr	ansported	-Entire Road.	
Lumber and forest products,  Merchandise and other article enumerated above,	s not	Tons. 137,115 1,965	Per Cent. 98.59 1.41
	-		

#### ADDITIONAL QUESTIONS.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? None.

STATE OF MICHIGAN, COUNTY OF WAYNE,

Total tons carried,

M. S. Smith, President, and J. C. McCaul, Secretary of the Manistique Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this Company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said Company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, M. S. SMITH, President. J. C. McCAUL, Secretary.

Subscribed and sworn to before me this 19th day of March, A. D. 1890.

[L. s.]

G. H. STALKER,

Notary Public, Wayne County.

139.080

#### ANNUAL REPORT.

#### OF THE

## BATTLE CREEK & STURGIS RAILWAY COMPANY,

(Formerly St. Louis, Sturgis & Battle Creek Railroad Company.)

For the Period Beginning September 1 and Ending December 31, 1889.

[Filed March 24, 1890.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. A. GARDNER, Chicago, Ill. Vice President, C. W. HILLARD, Chicago, Ill. Secretary and Treasurer, J. H. KINGWILL, Chicago, Ill. Auditor, BRUCE ELLIS, Battle Creek. General Superintendent, W. IRVING FOX, Battle Creek. Chief Engineer, J. F. CAREY, Battle Creek. Attorney, S. S. HULBERT, Battle Creek.

#### DIRECTORS.

ROBT. D. McFadon, Chicago, Ill. Jas. P. Gardner, Chicago, Ill. J. H. Kingwill, Chicago, Ill. S. H. Spooner, Chicago, Ill. Chas. W. Hillard, Chicago, Ill. H. A. Gardner, Chicago, Ill. Ewd. F. Lawrence, Chicago, Ill.

Terms expire June 4, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

11							
None.							
None.							
Date of annual meeting of stockholders,—First Wednesday in June.							

-miles, 41.50,

#### REMARKS.

The Company is still in a formative state and its organization not fully completed. The property was placed in the hands of a receiver, Mr. Wm. K. Ackerman, on the 14th of March and was operated by him until September 1st following, when it passed into the control of the present company. A statement of the earnings during the receivership of Mr. Ackerman is appended to this report.

#### GENERAL EXHIBIT.

		DEB	IT.	CREDI	IT.
Total income, Total expenses, including taxes,		\$8,208	23	<b>\$</b> 9,415	23
Net income,	-		-	\$1,207	00
Rentals of buildings, tracks, etc., Rentals of engines and cars,		\$305 5 <b>4</b> 0		0.40	0-
		-		846	
Balance for the year, Balance forward to next year,		\$360	95	360	95
		<b>\$360</b>	95	\$360	95
ANALYSIS O				\$1,000,000	00
Amount authorized by charter or Par value of shares, No. of shares isued,	\$10 \$10 5,00	00	-	<b>\$1,000,000</b>	w
Amount paid in on common,	-	* \$500,000	00		
Total amount paid in, as per book Paid in per mile of road owned by			-	500,000	00

#### ANALYSIS OF DEBT ACCOUNTS.

\$12,048 19

#### FUNDED DEBT.

Class, Character, and Date of Issue,	When Due,		Interest,	Amount.	
		Rate. Payable.			
First mortgage, December 1, 1889	Dec. 1, 1989	8%	New York	\$500,000	
Total funded debt				\$500,000	

<sup>\*</sup> Stock being issued for part cost of company's property above amount is entered as being fully paid.

<sup>&</sup>lt;sup>a</sup> The above amount of bonds have been duly authorized by resolution of the board of directors to be issued in payemnt for the company's property and are in process of preparation.

## UNFUNDED DEBT.

Unfunded debt,	- None.									
RECAPITULATION.										
Total funded debt,	\$500,000 00									
Total debt liabilities,	\$500,000 00									
Amount of debt liabilities per mile of road (41.50 miles), Total amount of stock and debt, Stock and debt per mile of road (41.50 miles),	12,048 19 1,000,000 00 24,096 38									
GENERAL BALANCE SHEET.—Dr.										
Construction account, Equipment account (\$8,757.15).	<b>\$1,000,000 00</b>									
Cash Items:       \$150 92         Cash,       685 24         Due from agents,       180 14	1,016 39									
Total,	<b>\$1,001,016</b> 30									
GENERAL BALANCE SHEET.—Cr.										
Capital stock,	\$500,000 00 500,000 00									
Total,	\$1,000,000 00 1,016 30									
Total,	<b>\$1,001,016 30</b>									
COST OF ROAD AND EQUIPMENT.										
Purchased by Present Company.										
When purchased,—November, 14, 1889. Original cost to present company, of road and equipment,	<b>\$1,000,000</b> 00									
Total cost to date of report,	<b>\$1,000,000 00</b>									
Average cost per mile of road (not including sidings —41.50 miles),	24,096 38 1,000,000 00									
ANALYSIS OF EARNINGS.										
PASSENGER EARNINGS.										
Main line and branches: Local fares,										
Total passenger fares, \$3,166 00										

100	MICHIGAN	I LVAII	TWOAD	MEL	Jumas.		լ 1060.	OT,
E and ham					969	99		
Express and bag	gage,	-		•	862 706			
Mails,	-	-						
Other sources,	-	-		•	13			
Total passenge	r departme	nt ear	nings,	-	-	-	<b>\$4,74</b> 8	<b>54</b>
Proportion for M	Iichigan.				<b>\$4,74</b> 8	54		
Per train mile,				_	28			
Per mile of road	l <b>,</b> .				114			
	FR	EIGHT	EARNI	NG8.				
Mr. 2: 12 11	1							
Main line and bran	iches:				<b>A</b> 4 000	d'O.		
Local traffic,		-			<b>\$4</b> ,666	69		
Total traffic,		_			\$4,666	69		
Total freight d	lepartment	earnin	gs,		_	_	<b>\$4,666</b>	69
Proportion for M	<del>-</del>		_		<b>\$4</b> ,666	69		
Por train mile	шаш,	•				11		
Per train mile, Per mile of road	1	-	-		112			
			-	-				
Total transpor	tation earni	ngs,			<b>\$</b> 9,415	23		
Transportation ear Transportation ear					<b>226</b>	55 56.71		
Total earnings from	n operation	of ro	ad .	-			<b>\$</b> 9, <b>4</b> 15	23
					226	55		
Total earnings per		ia,			440	56.71		
Total earnings per Proportion of taxal	ble comine	for N	Tiahim	- m		00.11	9,415	92
Total taxable earn	nings ner m	ile of	Loug	in	-	-	0,110	20
Michigan,	go por n	01			226	55		
Total income f	rom all son	TCAS				00	<b>\$</b> 9,415	23
Proportion of inco	me for Mic	higan.	-	-	-		9,415	
_ 10po101011 01 11100	101 1110		-	-			-,	
	ANAL	ysis (	F EXP	ENSE	S.			
Cr	LASS 1.—Main	itenanc	e of We	ay and	Buildin	gs.		
Repairs of road we	ay and track	ζ,	_	_	_	_	\$2,632	13
Repairs of bridges	including	culver	ts and	cattle	guards.			$\overline{05}$
Repairs of fences,	road crossir	igs an	d signs	•	 -	_		93
Repairs of buildin	gs,	-		-	-	-		<b>55</b>
Total,		_		_	-		\$2,808	66
Cr.se	s 2Mainte	nauce e	of Motis	ne Pom	er and C	Cars.		
		rco (	J				<b>@1</b> .21	20
Repairs of locomot					-	-	<b>\$161</b>	
Repairs of passeng		-	- <del>-</del>	-	-	-	115	
Repairs of freight	cars,	-		-	-	-	162	49
Total,							<b>\$439</b>	56
±0001, -		-		_	-	-	ATO 0	

CLASS 3	.—Conducting	Transportation.
---------	--------------	-----------------

	CLASS 3	3.—Condi	ucting	Trans	portat	tion.			
Fuel for locomotive	00				•			<b>\$</b> 925	99
Water cumply	<b>es</b> , <sub>-</sub>	-		-	-		•		56
Water supply, Oil and waste, Locomotive service		-	-	-		-	-		88
Locomotive service		-	-	-	-	-		881	
	-,	-	-	-	-	-	-	375	
Passenger train ser	rvice,	-	-	-	-	-	-		98
Passenger train sur	ppnes,	-	-	-	-		-	375	
Freight train servi	CO, _	-	-	-	-	-	-		00
Freight train suppl			-		-	_ •	-		17
Damages to proper	rty and	cattle,		-	-	-	-		
Agents and station	service		-	•	-	-	-	1,133	42
Station supplies,		-	-	-	-	-	-	89	50
Total,			-		_	-	_	<b>\$</b> 3,926	91
	~		~						
	C	LASS 4.—	Genera	l Expe	enses.				
Calanias af the man	1 - A	£ A	LL		_			<b>400</b> 0	77
Salaries of the gen	erai om	cers or t	тте со:	mpany	у,	-	-	<b>\$805</b>	
Stationery and prin		-	-	-	-	-	-	81	
Contingencies,		-	-	-	-	-	-	145	99
Total,		-	-	-	-	-	-	<b>\$</b> 1,033	10
	RECA	PITULAT	rion c	F EX	PENSE	28.			
	RECA	PITULAT	rion c	F EX	PENSE	Per ce	ent of		
Maintenance of wa				F EX	PENSE	Per ce Exp		<b>\$2.80</b> 8	66
Maintenance of wa	y and b	uildings	3, _	_	PENSE - -	Per ce Expe	22.	<b>\$2,</b> 808 439	
Maintenance of mo	y and b	uildings wer and	3, _	_	PENSE - -	Per ce Expe 34	nses.	439	<b>56</b>
Maintenance of wa Maintenance of mo Conducting transpondeneral expenses,	y and b otive por ortation	uildings wer and	s, _ cars,	_	PENSE - - - -	Per co Exp 34 5 47	22 .35		56 91
Maintenance of mo Conducting transp	y and botive portation	uildings wer and , ng taxes,	cars,	-	PENSE - - - -	Per co Exp 34 5 47	.22 .35 .84 .59	439 3,926	56 91 10
Maintenance of mo Conducting transported expenses, Total operating Operating expenses Operating expenses	y and botive poortation includir g expense and tass and t	uildings wer and , ng taxes, ses and xes per axes pe	taxes,	of roac	- - - - -	Per co Exp 34 5 47 12	.22 .35 .84 .59	439 3,926 1,033	56 91 10
Maintenance of mo Conducting transported for the Conducting transported for the Conducting expenses, and the Conducting expenses of the Conducting expenses	y and botive poortation includir g expense and tass and t	uildings wer and , ng taxes, ses and xes per axes pe	taxes,	of roac	- - - - -	Per ce Exp 34 5 47 12		439 3,926 1,033	56 91 10
Maintenance of monocommunication of monocommunication of conducting transporters, and the conducting expenses, and the conducting expenses of conducting expense	y and botive por ortation including g expenses and tases and tases	uildings wer and , ng taxes, ses and xes per axes pe	taxes,	of road n mil (17,22	- - - - - 1, (e	Per ce Exp 34 5 47 12	.22 .35 .84 .59	439 3,926 1,033	56 91 10
Maintenance of monocommunication transported expenses, and the Total operation of the Total operation operating expenses operating expenses run, for trains miles),	y and botive por ortation including g expenses and tases and tases	uildings wer and , ng taxes, ses and xes per axes pe	taxes,	of road n mil (17,22	- - - - - - - - - - - - - - - - - - -	Per ce Exp 34 5 47 12	222 .35 .84 .59 	439 3,926 1,033	56 91 10
Maintenance of monocommutating transporters, and the Conducting transporters, and the Conducting expenses, and the Coperating expenses of training miles), and the Coperating expenses run, for training miles), and the Coperation of the Coperation	y and botive por ortation including expenses and ta- s and ta- s earning ex- eating ex-	uildings wer and , ng taxes, ses and xes per axes per axes per cpenses :	taxes, mile cor trainue and ta	of roac n mil (17,22 exes fo	1, le 60 or	Per co Exp 34 5 47 12 100 \$197	222 .35 .84 .59 	439 3,926 1,033	56 91 10 23
Maintenance of monocommutating transporters, and the Conducting transporters, and the Conducting expenses, and the Coperating expenses of training miles), and the Coperating expenses of training miles), and the Coperation of the	y and botive porortation including expenses to	uildings wer and , ng taxes, ses and xes per axes per axes per cpenses :	taxes, mile cor trainue and ta	of roac n mil (17,22 exes fo	1, le 60 or	Per co Exp 34 5 47 12 100 \$197	222 .35 .84 .59 .00 78 47	\$8,208	56 91 10 23
Maintenance of monocommutating transporters, and the Conducting transporters, and the Conducting expenses, and the Coperating expenses of training miles), and the Coperating expenses run, for training miles), and the Coperation of the Coperation	y and be obtive portation including expenses and tage arminating expenses to nile of r	uildings wer and , ng taxes, ses and xes per axes per axes per conses : enses fo earning oad,	taxes, mile cor trainue and ta	of roac n mil (17,22 exes fo	1, le 60 or	Per co Exp 34 5 47 12 100 \$197	222 .35 .84 .59 .00 78 47	\$8,208	56 91 10 23

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Battle Creek, Mich., to Sturgis, Mich., January, 1889.

10

#### MAIN LINE.

	MINIM	TIME	<b>3</b> .					
In Michigan, from Battle Creek	to St	urg	is,	-	-	Miles, 1		Miles. 100ths.
Total length completed,		•	-	-	-	-	-	41.50
	BRANC	CHES	<b>.</b>					
Total length of road belonging	to this	cor	npan	y,	-			41.50
Total length of road belonging to Aggregate length in Michigan,	to this	s cor	npan s. spi	y in irs.	Mich	nigan,	-	41.50
and other tracks not above en Aggregate length of tracks in M	umer	ated	, -	_	-	-		3.77
ing to this company, computed	l as si	ngle	trac	ek,	-	-		45.27
Gauge of track, 4 feet 81 inches	<b>J.</b>							

## Proprietary or Leased Roads Operated by this Company.

Name, description, and length of each:		Total Miles. I	n Michigan.	
Sturgis, Goshen & St. Louis Railway (so this road as lies between Sturgis and the	much of Indiana			
State line),			2.50	
Total,	-	-		2.50
Total miles operated by the company,	-	-	44.00	44.00

## Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?
Cincinnati, Jackson & Mackinaw R. R. at Battle Creek, Mich.
Michigan Central Air Line R. R. at Colon Junction.
Grand Rapids & Indiana R. R. at Sturgis.
Lake Shore & Michigan Southern at Sturgis.
What railroads cross your road either over or under your grade in this
State, and where? None.
At what crossings are interlocking and derailing switches in operation?
Cincinnati, Jackson & Mackinaw R. R. crossing at Battle Creek.
Michigan Central Air Line Crossing at Colon Junction.
What pattern or patterns have you adopted?
Gravitt at Colon Junction; Randolph at Battle Creek.
Number of crossings of highways at grade in this State,  48
Number of crossings of highways at grade in this State
at which there are gates or flagmen, None.
Are your frogs and guard rails blocked as required by Act
174, Session Laws 1883? Yes.
Stations.

Number of stations on whole line, Same in Michigan,

1889.]	BATT	TLE (	CREE	K & 8	STUR	GIS	RAIL	WAY	co.	103
		•		<b>E</b> t	mploy	és.				
Number perso	ns reg	ularl	v em	olove	d on a	all ro	ads o	opera	ted	
by company	, inclu	ding	offici	als,	-	-	-	-	_	42
Same in Mich	igan,	- '	-	_	-	-	-	-	-	42
Classify your					wing	list:				
_	-	•	•		Ü					Number.
Baggagemer	u, -	-	-	-	-	-	-	-	-	2
Brakemen,	-	-	-	-	-	-	-	-	-	2
Conductors,	-	-	-		-	-	-	-	-	${ {2}\atop 2}$
Engineers, Firemen,	-	-	-	-	-	-	-	-	-	$\overset{2}{2}$
Laborers,	-	-	-	-	-	-	-	-	-	19
Shopmen	-	-	-	-	-	-	-	-	-	2
Shopmen, Others, -	-	_	-	_	_	_	_	_	_	11
Cuicis, -										
			REPA	IRS A	ND R	ENEW	ALS.			
			Fe <sub>1</sub>	icing	in Mi	ichiga	n.			
Uow many mi	log of	fanai	na ha	, 170, 170	· · · · ·					83
How many mi	her of	mile	та по	ive ye iirad	to o	- mple	to fo	nca l	- hoth	sides of your
track, in Mi	chion	n and	i the	anou connt	ies ir	mpie whi	ch ne	eyey		sides of your
All completed		u, um	. 0110	ooun	105 11		OH 110	ouou	•	
	-		_			m				
			ко	ad Bed	i ana	Trac	κ.			
Number of tra	ck sec	ctions	in N	lichig	an,	-	_ •	_	_	6
Average lengt	h of s	ection	ıs (m	iles),		-	-	-	_	7 .
Average num	er of	men	in eac	ch sec	tion	gang	,	-		3
Number of ne	w ties	put i	n wh	ole li	ne du	ring	the y	ær,	-	2,700
Number of ne	w ties	put i	n trac	ck in	Mich	igan,	-	-		2,700
Average num	oer of	new	ties p	er mı	le of	road,		-	-	62
			Br	idges	and C	ulver	ts.			
Timber culver	ts ren	laced	duri	ng th	e vea	r				2
With iron pip									ĩ	
With timber,-					_	_			1	
			_	~			_			
	•		R	OLLI	NG S	TOCK				
								Numl	oer.	Present Estimated Value.
Number of loc					1 30 t	ons			_	
weight, exc	lusive	of ter	nder,	-	-	-			1	<b>\$3,200</b> 00
/D-4-1								_	1	<b>#2 000 00</b>
Total,	-			-	-	-			1	<b>\$3,200 00</b>
Number of pa	ssenge	er car	<b>8</b> —8	wheel	, incl	ud-				
ing official	cars,	_	-	_	-	-			1	3,400 00
Number of ex	press	and b	agga	ge car	rs,	-			1	2,000 00
Total,	-	-							2	<b>\$8,600</b> 00
Number of l	ocom4	tivoe	90111	nnad	with	1000	ver			
brakes,	отпо	AT A CQ	equi	ppeu	** 101	. pov	. 61			1
Number of p	asseno	- :er-t.r:	- ain c	ars ec	uinr	ed w	ith			-
power brak			-	-	- -	-	-			2

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse Automatic. Two locomotives and four cars. Half of this number are leased.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? Do not own any.

What pattern or patterns have you adopted for use? Do not own any.

How are your passenger cars heated? The one we own heated with Baker heater.

#### MILEAGE, TRAFFIC, ETC.

#### Train Mileage.

Sept. 1 to Dec. 31, 1889: Miles run by mixed trains,	-	-	-	-		17,220
Total mileage of trains	earning	rev	enue,			17,220
	Passen	ger I	Traffic.			
No traffic accounts open.						•
Freight Fo	orwarde	d at	Michig	an St	ations.	
						Tons.
Grain,	-	-	-	-	-	1,427
Flour,		-		-		. 4
Provisions (beef, pork, lard,	etc.),	_				. 6
Animals,	-	_		-		373
Other agricultural products,	_	_			-	452
Lumber and forest products,						1,980
Coal,	•					541
Plaster, lime and cement,						54
Salt,	-			•		82
Pig and bloom iron,		-		-	•	354
Other iron and castings,		-		-		51
	nod fuo	-	oint o	f pro	duction	9
Manufactures,—articles ship	laa mad	m р	omi o	d ab	auchon,	489
Merchandise and other artic	ies not	enui	пеган	o ao	ove, .	. 403
Total forwarded,	_	-	-	_		5,822
Tonnage of A	rticles T	rans	ported.	En	tire Road.	
			-		Tons	
Grain,					1,42	
	-	-	-		1,72	
Flour,	-4 \	-	-		-	3 .10
Provisions (beef, pork, lard,	θιс. ),	-	-			
Animals,	-	-	-		373	
Other agricultural products,		-			459	
Lumber and forest products	3, .	-	-		1,980	
Coal,		-	-		54	
Plaster, lime and cement,	_	-	_		. 54	
Salt,	_	_	_		89	2 1.41
Pig and bloom iron,	_	_	-		354	6.08

Other iron and castings,	Tons. 51	Per Cent. .91
Manufactures,—articles shipped from point of production,  Merchandise and other articles not	9	.15
enumerated above,	489	8.40
Total tons carried,	5,822	100.00

## ADDITIONAL QUESTIONS.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

United States Express Company. They pay us two hundred and ten dollars and ninety cents (\$210.90) per month. Their business is general.

We take their freight at depots.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 41½ miles. It belongs to the Postal Telegraph Cable Company.

STATE OF ILLINOIS, SS.

Henry A. Gardner, President, and J. H. Kingwill, Secretary, of the Battle Creek & Sturgis Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

Signed, HENRY A. GARDNER, President. J. H. KINGWILL, Secretary.

Subscribed and sworn to before me this 21st day of March, A. D. 1890.

[L. s.]

Simeon W. King,

commissioner of deeds for the State of Michigan residing in Chicago,

Illinois.

## REPORT OF EARNINGS

#### OF THE

# ST. LOUIS, STURGIS & BATTLE CREEK RAILROAD COMPANY,

#### WM. K. ACKERMAN, Receiver.

From the 14th of March, 1889, to August 31, 1889.

The following are the earnings of the St. Louis, Sturgis & Battle Creek Railroad Company, during the above period of 1889:

For transportation of freight, For transportation of passengers, For transportation of mails, For transportation of express, For miscellaneous earnings,	-	- - -	- - -	-	\$3,478 29 4,115 28 870 96 1,265 40 6 00
Total earnings for period,				_	\$9,735 93

STATE OF MICHIGAN, SS. COUNTY OF CALHOUN,

W. K. Ackerman, being duly sworn, says that the period of time specified in the annexed statement of earnings is the period during which he was receiver of the railroad specified in said report, and that said report is in all respects true, to the best knowledge, information and belief of him, the said deponent.

Signed, W. K. ACKERMAN.

Subscribed and sworn to before me at Battle Creek, Michigan, March 15, 1890.

STUART S. HULBERT,

Notary Public.

## ANNUAL REPORT

#### OF THE

# BAY CITY & BATTLE CREEK RAILWAY COMPANY,

(Formerly Battle Creek & Bay City Railway.)

For the Year Ending December 31, 1889.

[Filed March 24, 1890.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. A. GARDNER, Chicago, Illinois. Secretary and Treasurer, J. H. KINGWILL, Chicago, Illinois.

#### DIRECTORS.

ROBT. D. McFadon, Chicago, Illinois.
JAMES P. GARDNER, Chicago, Illinois.
J. H. KINGWILL, Chicago, Illinois.
S. H. Spooner, Chicago, Illinois.
CHAS. W. HILLAED, Chicago, Illinois.
HENRY A. GARDNER, Chicago, Illinois.
EDWD. F. LAWRENCE, Chicago, Illinois.

Terms expire June 4, 1890.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

9.			
-		-	11
	-	-	None.
. •	-	-	None.
			-

#### REMARKS.

This company was organized to take the railroad and property of the Battle Creek & Bay City Railway Company which had been sold under foreclosure of its mortgage in September, 1889. The present company has done nothing so far with the property except acquire it.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, - Par value of shares, \$100 00  No. of shares issued, 3,000  *Amount paid in on common, \$300,000 00	<b>\$</b> 1,000,000 00
Total amount paid in, as per books of the company, Paid in per mile of road owned by company, —17.30 miles, \$17,341 00	<b>\$</b> 300,000 00

## ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Bonds have been prepared but none are yet issued. The amount authorized on present road is \$250,000, \$178,000 of these to be paid by purchase of present road. Rate of interest 3%, due in 1989 at New York.

#### RECAPITULATION.

Total funded debt, not issued but authorized,	<b>\$250,000 00</b>
Total debt liabilities, Amount of debt liabilities per mile of road (17.30 miles),	\$250,000 00 14,450 86
Total amount of stock and debt, Total stock and debt per mile of road (17.30 miles),	\$550,000 00 31,791 86
Interest on the Funded Debt.	
What is the amount of same due each year, Was it paid for the last year? None due.	<b>\$7</b> ,500 00

#### COST OF ROAD AND EQUIPMENT.

## Purchased by Present Company.

When purchased,—November 14, 1889. Original cost to present company of road and equipment, Amount expended since purchase, account of construction, Amount expended since purchase, account of equipment,	\$550,000 00 Nothing. Nothing.	
Total cost of road and equipment, Average cost of same per mile, Proportion of cost of road and equipment for Michigan,	\$550,000 00 31,791 90 550,000 00	

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Dec. 27, 1889.

<sup>\*</sup>The stock issued to the amount of \$300.000.00 was by articles of incorporation declared paid in acquiring the property of the Battle Creek & Bay City Railway Company.

#### MAIN LINE.

	Mil	liles. 100ths. Miles. 100ths.			
Length completed in Michigan: Midland to West Bay City,	-	-	-	17 30	
Total length completed,	-	-	-	-	17 30
Total length of road belonging to this co Total length of road belonging to the	ompany	7,	in	-	17 30
Michigan, Aggregate length of sidings, spurs, and			_	17 30	
not above enumerated, Same in Michigan,	-	-		85	85
Aggregate length of tracks belonging to	this co	- mpa	ny,	, G <b>U</b>	10 15
computed as single track, Same in Michigan, Gauge of track, 4 feet 8½ inches.	-	-	-	18 15	18 15

STATE OF ILLINOIS, \ SS.

Henry A. Gardner, President, and J. H. Kingwill, Secretary, of the Bay City & Battle Creek Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, HENRY A. GARDNER, President, J. H. KINGWILL, Secretary.

Subscribed and sworn to before me this 21st day of March, A. D. 1890. SIMEON W. KING,

A commissioner of deeds for the State of Michigan, residing at Chicago, in Illinois.

### ANNUAL REPORT

#### OF THE

## CHICAGO & GRAND TRUNK RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed March 28, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, Sir Joseph Hickson, Montreal, Province of Quebec.
Vice President, L. J. Seargeant, Montreal, Province of Quebec.
Secretary and Assistant to the President, Charles Percy, Montreal, Quebec.
Treasurer, James H. Muir, Detroit, Mich.
General Manager, W. J. Spicer, Detroit, Mich.
Superintendent, A. B. Atwater, Detroit, Mich.
Assistant Superintendent, A. R. McIntyre, Battle Creek, Mich.
Chief Engineer, George Masson, Detroit, Mich.
Traffic Manager, Geo. B. Reeve, Chicago, Illinois.
General Passenger and Ticket Agent, W. E. Davis, Chicago, Illinois.
Assistant General Freight Agent, David Brown, Chicago, Illinois.
Solicitor, E. W. Meddaugh, Detroit, Mich.

#### DIRECTORS.

SIR JOSEPH HICKSON, Montreal, Province of Quebec.
L. J. SEARGEANT, Montreal, Province of Quebec.
E. W. Meddaugh, Detroit, Mich.
HENRY HOWARD, Port Huron, Mich.
W. C. BEARDSLEY, Auburn, New York.
F. A. Howe, Chicago, Illinois.
DE. F. SKINNER, Valparaiso, Indiana.
Terms expire April 14, 1890, or when their successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—January 7, 1880.	
Number of stockholders at date of last election,	280
Number of stockholders in Michigan at same date,	18
Amount of full paid stock held in Michigan at same date,	<b>\$147,800</b>
Date of annual meeting of stockholders,—Second Wednesday in April.	
Fiscal year of company ends,—December 31.	
General offices of the company are located at Detroit, Mich., and Chicago, Il	l.

## GENERAL EXHIBIT.

Total income.				Debit	•	Credit \$3,732,775	-
Total expenses, including tax	es,	-	-	<b>\$2,804,668</b>	<b>7</b> 9	40,102,110	,
Net income,	_	-	-		.=	928,106	63
Interest on funded debt, Interest on unfunded debt,	-	-	-	\$659,984 27,439	47 57		
Rentals of leased lines, etc.,	-	-	-	40,434	08		
Rentals of cars,	-	-	-	69,019	16	700.077	00
						796,877	28
Balance for the year,	-	-	-		-	<b>\$</b> 131,229	<b>35</b>
Items not included in above Advance to Tol., Sag. & Maits bond interest under the agreement, Interest coupons paid, previous	I. R'y	of tra	affic -	\$8,171 123,058			
Balance forward to next	year,	-	-		-	<b>\$</b> 131,229	35
				<b>\$</b> 131,229	35	<b>\$</b> 131,229	35
ANALYS	sis oi	F CA	PITAI	STOCK.			
Amount authorized by charte Par value of shares, Number of shares issued,	-	<b>\$</b> 1	<b>00 00</b>	·	-	<b>\$</b> 6,600,000	00
Amount paid in on common,			-	<b>\$</b> 6,600,00	0 00	)	
Total amount paid in as	per b	ooks	of the	company,	-	6,600,000	00
Paid in per mile of road own —miles, 326.50,	ed by	com	pany,	<b>\$2</b> 0,21	4 40	)	

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.
First mortgage bonds, 1890.	6x 5x	Jan. 1, 1900 Jan. 1, 1922	London, Eng. & New York	\$6,000,000 6,000,000
Total funded debt	· ·			\$12,000,000

## UNFUNDED DEBT.

For What Incurred.	Is the Same to be Fu	nded or How Liquidate	d. Amount.
For construction. For equipment. For real estate For renewals For miscellaneous. For current balances			\$964,874.39
Total unfunded debt			\$984,874 89
	RECAPITULAT	ION.	
Total funded debt, Total unfunded debt,		 	\$12,000,000 00 964,374 39
Total debt liabilitie Amount of debt liabiliti		(326.50 miles),	\$12,964,374 39 39,707 11
Total amount of sto Stock and debt per mile	ock and debt, of road,—326.50	miles,	\$19,564,374 39 59,921 51
GE	NERAL BALANCE	SHEET.—Dr.	
Construction and equip	ment account,		<b>\$</b> 18,403,203 65
Cash items: Cash, Due from agents,	- : -	\$178,231 06 74,052 68	}
Other assets:  Materials and supplie	os,	\$295,708 82	252,283 74
Debit balances from individuals,	companies and	613,178 18	908,887 00
Total,			<b>\$</b> 19,564,374 <b>3</b> 9
GEN	NERAL BALANCE	SHEETCr.	
Capital stock, Funded debt,		\$6,600,000 00 12,000,000 00	,
Unfunded debt: Interest unpaid (due Vouchers and account Other liabilities (list as	i8,	), \$221,578 91 601,223 94	
Salaries and wages (p	aid January, 1890	,) 141,571 54	- 9 <b>64,374 39</b>
Total,			\$19,564,374 39

## COST OF ROAD AND EQUIPMENT.

## Purchased by Present Company.

Pi	ırcnasea	oy Pre	sent Co	mpany.			
When purchased,—Janua Original cost to present of Amount expended since p Amount expended since p	company ourchase	of r	ount of	constructi	on,	4,119,654	87
Total cost to date of	report,	-	-		-	<b>\$18,403,203</b>	65
Average cost per mile 326.50 miles, Proportion of cost for Mi						56,365 12,625,781	
CHARGES AND CR							
	М	IAIN L	INE.				
Extensions, new sidings, Second track, New buildings, etc., Bridging, New locomotives, New cars,  Total,  Total charges to property Property sold and credite Net credit to property acc	accoun	t as a	bove,	\$200,460 235,100 34,639 JINGS.	41 00	\$81,466 9,829 17,666 19,998 27,000 44,500 \$200,460	73 25 09 00 00
Main line and branches: Local fares, Through fares,  Total passenger fares  Express and baggage, Mails,	5, -	-	-	\$447,153 567,249 	30  06		
Total passenger depe	artment	earnii	ngs,		-	<b>\$1,112,687</b>	39
Per train mile, Per mile of road,			-	3,318	92		

15

## FREIGHT EARNINGS.

	F	REIGHT	EA	RNING	<del>1</del> 8.				
Main line and branches:	,								
Local traffic, Through traffic,	-	-	-	-	<b>\$79</b>				
Through traffic,	-	-	-	-	1,81	9,181	64		
Total traffic,	-	-	-	-	\$2,61	8,483	43		
Total freight depart	ment	earnii	ıgs,		-	-	_	\$2,618,483	<b>42</b>
Proportion for Michigan	zan.				\$1,74	9.456	52		
Per train mile.	,,				V-,·-	1	$\overline{13}$		
Per train mile, Per mile of road,	-	_	-	-	• ,	<b>7</b> ,810	07		
Total transportation	ı earn	ings,		-	-	-	-	<b>\$</b> 3,731,170	82
Transportation earnings	s per	mile	of r	oad					
-35.27 miles operate	d.	_		-	\$1	1,128	85		
-335.27 miles operate Transportation earning	28 106	er trai	$\mathbf{in}^{-}$	mile	•	_,			
-3,528,648,	)- E-	_	_			1	06		
From other sources,		_	_	_		1,604			
,									
Total earnings from	oper	ation o	of ro	ead,	-	•	-	<b>\$</b> 3,732,775	<b>42</b>
Total earnings per mil	e of	road.	<b>—33</b>	5.27		•			
miles operated.	_	_	_	_	1	1,133	64		
Total earnings per train	mile	-3.52	8.64	8.		1	06		
Proportion of taxable ear	ning	for M	ichi	gan.	2.49	3,935	32		
Total taxable earnings p	er m	ile of	roa	d in	,	-,			
Michigan, .		-			1	1,133	64		
3 /						•			
Total income from	all so	urces,	-	-	-	-		<b>\$</b> 3,73 <b>2</b> ,775	<b>42</b>
Proportion of income fo	r Mic	higan,	,	-	-	· -		2,493,935	<b>32</b>
	ANAJ	LYSIS	OF :	EXPE	INSES.				
Class 1.	Mai	ntenan	re of	Wan	and R	uildin	as.		
CLARS 1.	111.00	nionan	cc oj	· · · · · · · · · · · ·	ana D		y 0.		
Repairs of road way and	l trac	k,	_	_	_	_	_	<b>\$</b> 194,981	05
Renewals of rails and ti	es,	_	-	_	-	_	• _	93,293	
Repairs of bridges, incl	uding	culve:	rts a	and ca	attle g	uards	, -	20,453	18
Repairs of fences, road	rossi	ngs, ar	nd si	gns,	-	_		9,881	77
Repairs of buildings,		-	_	-	-	_	_	40,878	24
(D. 4-1								<b>4070</b> 407	<b>FO</b>
Total,	-	-	-	-	-	-	-	<b>\$</b> 359,487	58
Class 2.—	Main	tenance	of 1	<b>L</b> otive	Power	and (	Cars.		
Repairs of locomotive,								<b>\$</b> 176,441	23
Repairs of passenger car	- 18.	-	-	-	-	-	-	78,909	<u> </u>
Repairs of freight cars,		-	-	-	-	-	-	149,875	
Liopanio di moigni date,	•	-	-	-	-	-	-		
Total,	-	_	_	_	_	-	_	<b>\$</b> 405,226	00

1889.]	CHICAGO	æ	GRAND	TI	RUNK	RAII	JWAY	CO.	]	115
CLASS 3.—Conducting Transportation.										
Fuel for locon	notives.								\$350,584	75
Water supply	,	-	-	-	-		-	•	15,572	
Oil and waste.	, -	-	•	-	-	-	-	-	32,528	
Oil and waste. Locomotive se	rvice.		-	-		-		-	306,624	
Passenger trai	in service.				-	_	-		72,209	
Passenger tra	in supplies	_			_	-	-		8,679	
Mileage of pa	ssenger car	, S.	_	-		_			49,297	
Freight train	service.	_,	_	_	_	_	_		289,752	
Freight train	supplies.	_		_	-		_		17,359	74
Passenger train Mileage of past Freight train Freight train Mileage of free	eight cars.	_	_	_	_	_	_	_	241,431	85
Telegraph ext	oenses (ma	щч	nance a	na	opera	ting)		_	63,000	50
Damage and I	oss of freig	zht	and bas	gga	gė,	-	_	_	4,013	
Damages to ca	attle.	_		-		_	_	_	867	63
Damages to converse Personal injury Agents and st	ries,	_	_	_	_	_	_	_	24,000	00
Agents and st	ation servi	ce.	_	_		_	_	_	121,599	50
Station suppl	ies.	,	_			_			12,683	89
TOTAL CAPPE	,	_	_	_	_	_	=	_		
Total,		-	-	-	-	-	-	-	<b>\$1,610,205</b>	83
			ASS 4.—G		_					
Salaries of th	e general c	offic	ers of th	re c	ompa	ny,	-	-	\$37,900	
Salaries of cle	erks in gen	era.	l offices,		-	-	-	-	64,305	
Law expenses	3, -	-	-	-	-	-	-	-	13,564	
Insurance, Stationery and		-	-	-	-	-	-	-	6,457	
Stationery and	d printing,			-	-	-	-	-	33,956	92
Outside agend	nes and ad	ver	tising,	-	-	-	-	-	137,341	72
Contingencies	3, _	-		-	-	-		-	14,901	
Taxes,	-	-	-	-	-	•	-	-	121,321	<b>54</b>
Total,		-	~	-	-	-	-	-	<b>\$429,749</b>	38
	RE	ECAI	PITULAT	ION	OF E	XPENS	ses.			
							Per Cer			
Maintenance	of way and	br	ildings		_	_	Exper	2.82	\$359,487	58
Maintenance	of motive r	NW	er and	na re		_		4.45	405,226	
Conducting tr	on mouve p	) )n	or and t					7.41	1,610,205	
General exper	nag includ	Ju, line	r tores	<b>-</b>	<u>-</u>			5.32	429,749	
-	•	Ī				-				
Total ope	erating exp	ens	es and t	axe	8, -	-	100	0.00	<b>\$2</b> ,804,668	79
Operating expenses and taxes per mile of road, -335.27 miles, \$8,365 40										
Operating expenses and taxes per train mile run, for trains earning revenue,—3,528,648 miles,										
Proportion of	operating	ex	penses a	nd	taxes	for				
Michigan: Main line,					-	1,8	48,540	57		
				_						

\_ \_ \$1,848,540 57

Total proportion of expenses for Michigan,

Percentage of expenses to earnings,—75.14%.	
Net earnings per mile of road,—335.27 miles,	2,768 24
Net earnings per train mile,—3,528,648 miles,	26

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Port Huron, Mich., to Chicago, Illinois, February 1, 1880.

#### MAIN LINE.

In Michigan, from Port Huron, to Indiana State Line, In Indiana, from Mich. State Line to Ills. State Line, In Illinois, from Ind. State Line to 51st street, Chicago,	Miles. 100ths. 224.00 80.62 21.88	Miles. 100ths.
Total length completed,	-	326.50
Length of double track on main line, Total length of road belonging to this company, Total length of road belonging to this company in		326.50
Michigan, Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,	48.30	
Aggregate length of tracks in Michigan belonging to this company computed as single track, Gauge of track, 4 feet 8½ inches.	-	272.30

## Proprietary or Leased Roads Operated by this Company.

## Name, description and length of each:

	Total Miles.	In Michigan.
Grand Trunk Junction R'y 49th street, Chicago extending from Elsdon, Illinois, to Chicago & Western Indiana R. R. Junction, Chicago & West. Indiana R. R. extending from Chicago & Western Indiana R. R. Junction to	3.90	
Polk street depot Chicago,	4.87	
Total,	8.77	
Total miles operated by the company,	335.27	224.00

#### Number of Bridges and Trestles in Michigan.

Iron bridges, Wooden tres	nur tles,	nber o	f _ er of	-	16; 58;	Aggr Aggr	egate egate	lengt lengt	h, feet, h, feet,	-	1,568 3,519
Total,	_	_	_	_	74:	_	_	_	_	_	5,087

## Crossings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality? Grand Trunk Ry. at Chicago & Grand Trunk Jet. near Port Huron. Bay City Division Michigan Central R. R. at Lapeer.

Flint & Pere Marquette R. R. at Flint. Detroit, Grand Haven & Milwaukee Ry. at Durand. Cincinnati, Saginaw & Mackinaw R. R. at Durand. Toledo, Ann Arbor & North Michigan R. R. at Durand. Detroit, Lansing & Northern R. R. at Trowbridge. Michigan Central R. R. at Lansing, Charlotte, Battle Creek and Cassopolis. Lake Shore & Michigan Southern Ry. at Lansing and Schoolcraft. Cincinnati, Jackson & Mackinaw R. R. at Battle Creek. Grand Rapids & Indiana at Vicksburg.									
What railroads State, and who Over,—None. Under,—Pont At what crossi	ere? tiac, Ox ngs are	ford &	. Nort	hern	near I	mlay	City.		
Lansing and What pattern of			ve yo	u ado	pted?	Un	ion S	witch	and Signal
Company's.	_		•		_				
Number of cross Number of cross								a.t.	263
which there a	re gate	s or fla	agmen	,	_	-	-	_	10
Number of cros matic signals,		t whi	ch the	ere a	re elec	etric •	or au	to-	1
What pattern of	r patter	ns in	ase?	Unio	n Swi	tch a	nd S	ig-	1
nal Company	's.							_	
Number of cros		i high	ways (	over o	r und	er rai	iroad		4
Number of high	ıway br	idges 1	8 feet	abov	e trac	k,	-	-	. 2
Number of high	ıway br	idges l	less th	ian 18	3 feet	abov	e trac	k,	Nil.
Have safety gua Are your frogs	and one	n erec ird rai	tea at ls blo	over- cked :	-Dead ( as redi	oostr 1ired	uction by A	ıs, .ct	Yes.
174, Session I	Laws 18		-	-			~ <b></b> -		$\mathbf{Yes.}$
How are they to		.l.ahin		,					
With Hart's 1	oatent t	MOCKI	เราเทลา						
	parom:								
<b></b>	_		S	tations	3.				24
Number of stati	ions on		S	tations	<b>3.</b> -		-	-	84 45
Number of stati Same in Michig	ions on		S	tations	<b>3.</b> - -	-	-	-	84 45
	ions on		Si line,	tations	-	-	-	-	7.77
Same in Michig  Number persons	ions on gan, s regula	whole - arly en	Sine, - En	tations - mployé	- - !8.	- ads o	- - perat	- -	45
Number persons by company,	ions on gan, s regula includir	whole - arly en	Sine, - En	tations - mployé	- - !8.	ads o	perat	- - ed	45 2,721
Number persons by company, i Same in Michig	ions on gan, s regula includir gan,	whole - arly en	line, En	tations  mployé ed on	s. all ro	ads o	perat	- - ed -	45
Number person by company, i Same in Michig Classify your er	ions on gan, s regula includir gan, mployés	whole - arly en	line, En	tations  mployé ed on	s. all ro	ads o	perat	- - ed -	2,721 1,818 Number.
Number person by company, Same in Michig Classify your er Baggagemen,	ions on gan, s regula includir gan, mployés	whole - arly en	line, En	tations  mployé ed on	s. all ro	ads o	- - operat - -	ed -	2,721 1,818 Number. 31
Number persons by company, is ame in Michig Classify your er Baggagemen, Brakemen,	ions on gan, s regula includir gan, mployés	whole - arly en	line, En	tations  mployé ed on	s. all ro	- <b>ads</b> o	pperat	ed -	2,721 1,818 Number. 31 216
Number persons by company, is ame in Michig Classify your er Baggagemen, Brakemen, Conductors, Engineers,	ions on gan, s regula includir gan, mployés	whole - arly en	line, En	tations  mployé ed on	s. all ro	ads o	p <b>erat</b>	ed -	2,721 1,818 Number. 31 216 105 148
Number persons by company, is ame in Michig Classify your er Baggagemen, Brakemen, Conductors, Engineers, Firemen,	ions on gan, s regula includir gan, mployés	whole - arly en	line, En	tations  mployé ed on	s. all ro	- <b>ads</b> o	pperat	ed	2,721 1,818 Number. 31 216 105 148 136
Number persons by company, is ame in Michig Classify your er Baggagemen, Brakemen, Conductors, Engineers, Firemen, Laborers,	ions on gan, s regula includir gan, mployés	whole - arly en	line, En	tations  mployé ed on	s. all ro	ads o	- perat	ed -	2,721 1,818 Number. 31 216 105 148 136 774
Number persons by company, is ame in Michig Classify your er Baggagemen, Brakemen, Conductors, Engineers, Firemen,	ions on gan, s regula includir gan, mployés	whole - arly en	line, En	tations  mployé ed on	s. all ro	ads o	- 	ed -	2,721 1,818 Number. 31 216 105 148 136

Fencing in Michigan.	
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan and the counties in	456
which needed:	None.
Road Bed and Track.	
Number of track sections in Michigan,  Average length of sections (miles),  Average number of men in each section gang,  Number of new ties put in whole line during the year,  Number of new ties put in track in Michigan,  Average number of new ties per mile of road,  New rails put in track:  Steel (tons 1,688) miles, 16.08.  Total miles of track laid with new rails,	45 5 5 178,862 107,298 479
Bridges and Culverts.	
Amount of trestle work replaced with earth during the year (linear feet), Timber culverts replaced during the year, With iron pipe,—number, With timber,—number, 10	384 42

## ROLLING STOCK.

	Number.	Present Estimated Value.
Number of locomotives of more than 30 tons weight, exclusive of tender,	107	\$856,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender,	24	120,000 00
Total,	131	<b>\$</b> 976,000 00
Number of passenger cars—8-wheel, including		
official cars	30	114,000 00
Number of express and baggage cars,	17	31,400 00
Number of box freight cars,	148	51,800 00
Number of stock cars,	15	6,000 00
Number of platform cars,	$1\overline{45}$	36,250 00
Number of conductors' way cars,	63	37,800 00
Other cars as follows:	00	0.,000
1 snow scraper, 2 snow plows, 2 derrick cars		
and 5 auxiliaries,	. 10	15,500 00
Total,	428	<b>\$1,268,750 00</b>

What patterns of power breaks have you in use, and number of locomotives and cars with each? Westinghouse—110 locomotives, 30 coaches and 17 mail and baggage cars.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? Yes.

What pattern or patterns have you adopted for use? McCree & Skinner.

How are your passenger cars heated? Baker heaters—hot water.

## MILEAGE, TRAFFIC, ETC.

## Train Mileage.

Miles run by passenger trains during the Miles run by freight trains during the ye Miles run by mixed trains,	ear,		1,173,83 <b>4</b> 2,029,270 325,544
Total mileage of trains earning rever	nue, _		3,528,648
Passenger T	raffic.		
	Numbers and Quantities.	Miles.	Rate. Dols. Cents
Number of through passengers carried, Number of local passengers carried,	113,949 720,298		
Total number of passengers carried, _ Total passenger mileage, or passengers ca	834,247 arried one		
mile, Average distance traveled by each passer Average amount received from each passer Average rate of fare per mile for through Average rate of fare per mile for local per Average rate of fare per mile for all passer	senger, h passenger assengers,		\$1 22 01.49 02.13 01.72
Freight Tro	affic.		
Number of tons of through freight carried, Number of tons of local freight carried,	Numbers and Quantities 1, 1,054,875 686,319	7	Rate. Dollars. Cents.
Total tons of freight carried,	1,741,190	6	
Total mileage of through freight, Total mileage of local freight,	-	348,763 88,159	
Total freight mileage, or tons carrie	d one mile,	436,922	,915
Average ton haul for through freight, Average ton haul for local freight, Average ton haul for all freight,		1	30.6 28.5 50.9
Average amount received for each ton he Average rate per ton per mile, received in Average rate per ton per mil	for through for local fre	ight,	\$1 50 00.52 00.91 00.60

Freight	Forwarded	aŧ	Michigan	Stations
rrewni	r orwaraea	$a\iota$	micnigan	Stations.

_			•	-				Forwarded Tons.
Grain,	_	_	_		_	_	_	30,428
Flour,		_	_	_	_	_	_	19,502
Provisions (beef, pork, lard	, etc.)		_	_	_	_		979
Animals,		-	_	_	_	_	_	15,769
Other agricultural products,		_	_	_	_	_	_	19,183
Lumber and forest products,		_	-		_	_	_	110,032
Coal,		_	_		_	_	_	12,527
Plaster, lime and cement,	_	_	_		_	_	_	4,144
Salt,		_		_	_	_	_	37,154
Petroleum,			_	_		_		1,806
Railroad iron, iron and steel	rails.		_	_	_	_	Ţ.	36
Pig and bloom iron,		_	_		_	_		785
Other iron and castings,		_	_	_	_	_	_	804
Stone, brick and sand,		_	_		_	_	_	2,356
Manufactures-articles shipp	ed fr	om v	oint o	fproc	luctio	n.	_	17,096
Merchandise and other artic	les no	t enu	mera	ted ab	ove,	- <b>,</b>	-	30,987
Total forwarded.			_	_	_			303,588

## Tonnage of Articles Transported. -Entire Road.

		_					
						Tons.	Per Cent.
Grain,	-	-	_	-	_	309,382	17.77
Flour,	-	_	_	_	_	52,147	2.29
Provisions (beef, pork, lard,	etc.),	_	-	_	_	302,043	17.35
Animals,			_	_	_	164,129	9.43
Other agricultural products,		_	_		_	71,035	4.08
Lumber and forest products	<b>,</b> _	_	_	-	_	147,813	8.50
Coal,		_	_	_	_	82,730	4.75
Plaster, lime and cement,	_	-	_	-	_	7,678	0.44
Salt,	-	_		-	_	50,037	2.87
Petroleum,	_	_	_	_	_	4,894	0.28
Railroad iron, iron and steel	rails,	_	-	-	_	20,252	1.16
Pig and bloom iron,	_	_	_	_	_	6,611	0.39
Other iron and castings,	-	_	_	-	_	10,253	0.59
Ores,	-	_			-	4,480	0.26
Stone, brick and sand,	_	-	_	_	_	95,067	5. <b>44</b>
Manufactures,—articles ship	ped fro	om po	int of	prod	uc-		
tion,	_	_	_		_	149,098	8.56
Merchandise and other artic	les not	enur	nerate	d abo	ve,	263,547	15.14
Total tons carried,	_	_	_	_	_	1,741,196	100.00

## ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company guarantee \$50 per day for local busi-

ness averaging 7,000 lbs per day, and pay at same rate for excess if any. Also \$50.34 per day on through business. Freight taken at depot.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Cannot say. Western Union Telegraph Company.

#### TRANSPORTATION COMPANIES.

#### Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Company, Chicago, Illinois, \$12,200 40 Wagner Palace Car Company, New York, New York, 22,489 86

\$34,690 26

(Terms—3 cents per car per mile paid both companies.)

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

A . O .1 m 'A O OI ! TII! !				<b></b>	70
Ames Coal Transit Co., Chicago, Illinois			-		59
Armour Cudahay Refrigerating Line, South Omaha	ı, Nel	orask	8.	<b>46</b>	77
American Live Stock Co., Chicago, Illinois	· .			5,871	76
Atlanta Stone Coal & Lime, Atlanta, Georgia		-		1	32
Arms Palace Horse Car Co., Chicago, Illinois			_	149	17
Anglo American Provision Car Co., Chicago, Illino	ois	_	_	317	15
Ayers A. A. & Co., Montreal, Quebec		_		14	33
American Refrigerating Transit Co., Saint Louis, M	<b>L</b> isso	uri	_	82	96
Armour Refrigerating Line, Chicago, Illinois		_		8,243	53
Armour Refrigerating Line, Chicago, Illinois		_	_	4,479	
Barrett & Barrett, Chicago, Illinois					77
Burton Stock Car Co., Boston, Massachusetts			_	3	84
Brill J. G. & Co., Philadelphia, Pennsylvania				12	
Canda Cattle Car Co., New York City				58	97
Col. & H. Coal & Iron Co., Columbus, Ohio		_	_	1	49
Chicago Stock Car Co., Buffalo, N. Y.		_		116	35
Central Vt. Hog Cars, Boston, Massachusetts		_	_	12,861	<b>62</b>
C. M. & St. P. Milwaukee, Wisconsin			_	17,841	
Cygnet Tank Line, Cleveland, Ohio		_	_	•	<b>57</b>
Chicago Refrigerating Car Co., LaFayette, Indiana	<b>3.</b>	_	_	3,103	14
Chicago Boston & Liverpool Co., St. Albans, Verm		_	_	15,009	
10				,	

•	_
Dole, Jacob & Son, Kansas City, Missouri	\$29 22
East St. Louis D. B. Line, Chicago, Illinois	34 65
Ellsworth J. W. Chicago, Illinois	4 73
Frazer Lubricating Co., Chicago, Illinois	63 <b>4</b> 5
Goodells' Refrigerating Co., Chicago, Illinois	1 59
Globe Refining Co., Marietta, Ohio	1 85
Hammond Refrigerator Line, Chicago, Illinois	16,271 26
Hammond Refrigerator Line, Chicago, Illinois	9,160 03
Joliet Steel Co., Chicago, Illinois	1 59
Jenkins' Live Poultry Co., Chicago, Illinois	1 59.
Keystone Palace Horse Car Co., Chicago, Illinois	14 94
Kansas City D. B. Line, Kansas City, Missouri	882 19
Kansas City D. B. Line, Kansas City, Missouri	172 58
Live Poultry Transit Co., Chicago, Illinois	1 59
Mather Stock Car Co., Chicago, Illinois	41 95
Michigan Salt Line, East Saginaw, Michigan	1,861 97
Morris & Company, Chicago, Illinois	1,993 51
Morris & Company, Chicago, Illinois	2,420 09
Merchants Despatch Transit Co., New York City	238 96
Menasha Wooden Ware Co., Chicago, Illinois	4 08
New York Despatch Refrigerator Line, New York City	11,111 03
North Chicago Rolling Mills, Chicago, Illinois	5 98
National Car Co. St. Albans, Vermont	18,232 40
Peerless Tank Line, Cleveland, Ohio	3 46
Pullman Palace Car Co., Chicago, Illinois	$6,757 \ \overline{50}$
Racine Wagon & Car Co., Milwaukee, Wisconsin	57 38
	2 76
Rogers' Loco. Ex. Co., Philadelphia, Pennsylvania	80
Sun Oil Line Co., Toledo, Ohio	. 3 37
St. Chas. Car Co., St. Louis, Missouri	9 56
Sheboygan Chair Co., Chicago, Illinois	2,745 63
Street's Stable Car Co., Chicago, Illinois	1 59
Syme & Jones, Chicago, Illinois	37 81
St. Louis Refrigerator Line, St. Louis, Missouri	
Swift's Refrigerator Line, Chicago, Illinois	9,536 90
Swift's Refrigerator Line, Chicago, Illinois	7,245 26
Union Tank Line, New York City	. 12 98
M. S. Transit Co., Chicago, Illinois	4 78
Wagner Palace Car Co., New York City	14,839 92
Total,	\$172,032 33

## REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

February 18, A. R. Taylor, brakeman, Attica. Run over getting off train; his own faults
June 13, W. W. Staley, citizen, Lansing. Highway collision.

July 26, L. Mayer, trespasser, Potterville. Run over on company's right of way.

August 20, William Ross, sectionman, Penn. Trying to get on train in motion.

September 12, W. A. Dennison, brakeman, Battle Creek. Walking on track; run over.

December 8, R. Harrington, trespasser, Charlotte. Struck by train on company's right of way.

Railroad Company exonerated in all cases.

#### INJURED.

January 18, D. Thomas, farmer, Bellevue. Highway collision; his carelessness.

January 18, Mrs. D. Thomas, wife, Bellevue. Highway collision; her carelessness.

January 18, Miss Thomas, daughter, Bellevue. Highway collision; her carelessness.

February 1, E. M. Green, yard conductor, Flint. Fell from train, slight

internal injury; accidental.

February 4, W. Webster, fireman, Lapeer. Knocked off tank by water spout; accidental.

March 12, J. H. Desmond, engineer, near Charlotte. Finger injured; his carelessness.

March 20, George Craine, brakeman, G. T. Junction. Thumb and finger mashed, coupling cars; his carelessness. Died March 31, of lock jaw.

April 1, M. Needham, breakman, Bellevue. Two fingers injured, coupling cars; his carelessness.

May 6, W. Archer, brakeman, Durand. Hand and wrist injured, coupling cars; his carelessness.

May 23, A. A. Powell, brakeman, Battle Creek. Collar bone broken,

coupling cars; his carelessness.

June 1, G. Creig, trespasser, Cassopolis. Badly injured, stealing ride, getting off train; his carelessness.

June 1, W. H. Wells, yard brakeman, Battle Creek. Knocked off of car,

badly hurt; his own carelessness. June 29, H. Ryan, engineer, Emmet. Run off of open switch, wrecking

train, scalded; accidental. June 29, J. Carroll, baggageman, Emmet. Run off of open switch, wreck-

ing train, legs bruised; accidental. June 29, G. W. Tittle, brakeman, Emmet. Run off of open switch, wreck-

ing train, legs bruised; accidental.

June 29, Mrs. A. G. Hart, passenger, Emmet. Run off of open switch, wrecking train, injured internally; accidental.

June 29, Mrs. J. T. Laraway, passenger, Emmet. Run off of open switch, wrecking train, face injured; accidental.

June 29, Thomas Wimes, passenger, Emmet. Run off of open switch, wrecking train, side injured; accidental.

June 29, H. B. Moore, passenger, Emmet. Run off of open switch, wrecking train, side injured; accidental.

June 29, J. M. Jewell, passenger, Emmet. Run off of open switch, wrecking train, leg and shoulder injured; accidental.

June 29, A. Baker, passenger, Emmet. Run off of open switch, wrecking train, knees and back injured; accidental.

June 29. J. L. Willett, passenger, Emmet. Run off of open switch, wrecking train, knees and shoulder injured; accidental.

July 6, M. McCarthy, sectionman as cableman, Bellevue. Cable slipped off, unloading gravel, leg broken; accidental.

July 6, B. McQuinn, sectionman as cableman, Bellevue. Cable slipped off, unloading gravel, head injured; accidental.

July 24, J. Cain, engineer, Nichols. Jumping off engine, knee dislo-

cated; his carelessness.

July 31, J. Murr, tresspasser, Emmet. Threw himself under train, back and head injured; his carelessness.

September 9, J. H. Desmond, engineer, Lansing. Collision cars foul,

leg injured; accidental.

September 9, C. Jackson, baggageman, Lansing. Collision, cars foul, head cut; accidental.

September 9, C. Koeing, passenger, Lansing. Collision, cars foul, arm

and thigh bruised; accidental.

September 9, Mrs. A. Killins, passenger, Lansing. Collision, cars foul, side slightly bruised; accidental.

September 9, Mrs. Towne, passenger, Lansing. Collision, cars foul.

injured; accidental.

August 30, D. G. Dwyer, breakman, Marcellus. Coupling cars, fingers smashed; his carelessness.

September 8, J. E. Dunsmore, brakeman, Olivers. Coupling cars, two fingers smashed; his carelessness.

October 7, O. Blodgett, brakeman, Durand. Coupling cars, hand badly injured; his carelessness.

October 8, D. Scouten, conductor, between Charlotte and Potterville.

Coupling cars, two fingers smashed; his carelessness.

October 19, H. Chappell, conductor, Flint. Coupling cars, shoulder blade broken; his carelessness.

November 5, L. Upthegrove, brakeman, Durand. Walked off top of car,

both ankles sprained; his carelessness.

November 24, C. Pratt, warehouseman, Battle Creek. Coupling cars, shoulder dislocated and rib broken; his carelessness.

November 26, J. W. Edgett, brakeman, Battle Creek. Coupling cars,

hand crushed; his carelessness.

December 2, J. S. Reid, brakeman, Battle Creek. Coupling cars, two fingers crushed; his carelessness.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.	Killed.			Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
ollisions				3	2	
oupling carserailmentsalling from trains				7	1Z 3 1	••••••
rogsetting on and off trains		····· <u>2</u>				
lighway crossings liscellaneousverhead obstructions			1		7	 
	:		2			 
Total		3	8	10	25	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	_	_	_	6
Number of persons injured during the year,	_		_	_	40
Number of casualties purely accidental,		-	-	_	19
Number resulting from lack of caution, carelessness	s,	-		_	27
Persons killed or injured while intoxicated,	-		-	-	None.
Trespassers and tramps killed or injured,	-	-	-	-	1
Suicides (attempted),	_	-	-	-	1

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Employés,	Killed.	Injured.	Total.
Baggagemen	'	2	2
Brakemen. Conductors. Ragineers.		12 3 4	14 8 4
Firemen. Laborers.		' 1   8	1 8
Shopmen Yardmen Not classified above	·		1
		l	! <u></u>
Total .	8	25	28

STATE OF MICHIGAN, COUNTY OF WAYNE.

William J. Spicer, General Manager, and James H. Muir, Treasurer, of the Chicago & Grand Trunk Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1890, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

W. J. SPICER, JAS. H. MUIR,

Subscribed and sworn to before me this 26th day of March, A. D. 1890.

A. B. Thomas, Notary Public.

#### ANNUAL REPORT

#### OF THE

# DETROIT, GRAND HAVEN & MILWAUKEE RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed March 28, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, SIR JOSEPH HICKSON, Montreal, Quebec.
Assistant to the President, CHARLES PERCY, Montreal, Quebec.
Secretary and Treasurer, JAMES H. MUIR, Detroit, Mich.
General Manager, W. J. SPICER, Detroit, Mich.
General Superintendent, A. B. ATWATER, Detroit, Mich.
Chief Engineer, GEORGE MASSON, Detroit, Mich.
Traffic Manager, JOHN W. LOUD, Detroit, Mich.
Assistant General Freight Agent, JAMES McQUEEN, Jr., Detroit, Mich.
General Counsel, E. W. MEDDAUGH, Detroit, Mich.
Solicitor, GEORGE JEROME, Detroit, Mich.

#### DIRECTORS.

SIR JOSEPH HICKSON, Montreal, Quebec.
JOHN PRIDGEON, JR., Detroit, Michigan.
ELIJAH W. MEDDAUGH, Detroit, Michigan.
AARON B. MAYNARD, Detroit, Michigan.
GEORGE F. MOORE, Detroit, Michigan.
E. P. HANNAFORD, Montreal, Quebec.
W. J. SPICER, Detroit, Michigan.
CHARLES STIFF, Hamilton, Ontario.
JOSEPH HOBSON, Hamilton, Ontario.

Terms expire first Monday in October 1890, or when successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,-Marc	ch 7,	1834,	as t	he D	etroi	it and	l Pon-
tiac Railroad Company.							
Number of stockholders at date of last election,	-	-	-	-	-	-	11
Number of stockholders in Michigan at same date,	-	-	-	-	-	-	5
Amount of full paid stock held in Michigan at same of	late,	-	-	-	-	-	<b>\$250</b>
Date of annual meeting of stockholders,—First Mond	lay i	n Oc	tober				
Fiscal year of company ends, December 31.							
General offices of the company are located at Detroit	Mi	ch.					

#### GENERAL EXHIBIT.

Total income, Total expenses, including taxes,	-	<u>-</u>	DEBIT	- -	**CREDIT. \$1,076,612 822,982	
Net income,	-	-	<b>4910 000</b>	ΔΔ.	- \$253,629	90
Interest on funded debt, Interest on unfunded debt, -	-	-	<b>\$</b> 312,000 13,307			
Rentals of buildings, tracks, etc.,	-	-	3,429	<b>56</b>		
Rentals of engines, cars, etc.,	-	-	18,000	00	346,737	47
Balance for the year, a deficit of	-	-	\$93,107	57	040,101	41
Items not included in above, as Paid by Grand Trunk Ry. Co.,	follov	ws: -			93,107	57

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charte	r or	articles o	f association,	\$1,500,000 00
Par value of shares,	-	. \$5	0 00	
No. of shares issued,	_	_ 30	),000	
Amount paid in on common,	-		<b>\$1</b> ,500,000 0	0 .

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest.	When Due;	Where Payable,	Amount Outstanding.
Equipment mortgage bonds, Nov. 14, 1878 Consolidated mortgage bonds, Nov. 15, 1878	64 64	Nov. 14, 1918 Nov. 15, 1918	N.York orLondon	\$2,000,000 00 \$,200,000 00
Total funded debt				<b>\$</b> 5,200,000 <b>6</b> 0

#### UNFUNDED DEBT.

For what Incurred.	Is the Same to be Funded, or How Liquidated.	Amount,
For construction		
For equipment		
		\$146,000 00
For miscellaneous		\$882,646 65
Total unfunded debt		\$1,028,646 65
		l

#### RECAPITULATION.

Total funded d Total unfunde			-	<u>-</u> -			\$5,200,000 1,028,646	
Total debt Amount of deb	liabilities t liabilitie	s, es per m	ile of ro	ad,-	189 miles,		\$6,228,646 32,955	65 80
Total amount of Stock and debt				iles,			\$7,728,646 40,892	65 31
	GEN	ERAL B	ALANC	е ѕн	EETDr.			
Construction Other investme	ents, speci	fying sa	me:		<b>\$</b> 6, <b>72</b> 1, <b>9</b> 58	51		
Land for e Detroit,	nlarging	station (	grounds	at -	154,775	94	<b>\$</b> 6,876,73 <b>4</b>	15
Cash items:	-		-	-	\$29,400	72	\$0,010,10±	10
Due from ag	ents,	-	-	-	47,394	82 	76,795	<b>54</b>
Other assets: Materials and Debit balance	d supplies	, ompanie	s and ir	- 1 <b>-</b>	115,841	66		
dividuals,	-		-	-	659,275	00	775,116	66
Total,	-			-		-	\$7,728,646	65
	GEN	ERAL B	ALANC	E SH	EET Cr.			
Capital stock, Funded debt,	-	- <u>-</u>	- -	-	 	-	\$1,500,000 5,200,000	00 00
Unfunded de	bt·						\$6,700,000	00
Interest unpaid Vouchers and a Other liabilit	l,—accrue accounts,	_		d, .	\$83,944 798,701	90 75		
Due on land pu	rchased,	-	- ·	-	146,000	00	1,028,646	65
Total, -		-		-			\$7,728,646	

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Company.

#### Purchased by present company.

When purchased. September 4, 1878, transferred by receiver October 19, 1878.

Original cost to present of Amount expended since p Total cost to date of repo Average cost of road, not Proportion of cost for Mi	ourcha rt, includ	se, s ling	ccou sidii	nt of ngs,—	construct	ion, - s,	\$6,700,000 21,958 6,721,958 35,565 6,721,958	51 51 92
CHARGES AND CR	EDITS	то	PRO	PERT	Y DURIN	G TH	E YEAR.	
Main line and branches:								
New sidings, New buildings,	- -		-	-		-	<b>\$</b> 11,335 1,142	
Total charges,	. <u>.</u>		-	-		-	<b>\$12,47</b> 8	61
Total charges to property Property sold and credite	accou	nt s	s abo	o <b>v</b> e,		-	<b>\$12,47</b> 8 No	
Net addition to prop	erty ac	cou	nt,	-	- ·	-	<b>\$12,47</b> 8	61
A	NALYS	SIS	OF I	CARN	INGS.			
	PA881	ENGI	ER EA	ARNIN	G8.		•	
Main line:								
Local fares, Through fares,	-	- -	-	-	\$414,92 18,59	6 07 2 34		
Total passenger fares	3,	_	-	-	<b>\$4</b> 33,51	8 41		
Express and baggage, Mails,	-	-	-	<u></u>	25,72 26,35	4 66 2 49		
Total passenger depa	rtmen	t ea:	rning	s,		-	<b>\$4</b> 85,595	<b>56</b>
Proportion for Michiga Per train mile, Per mile of road,	an,	- -	- -	- -	\$485,59 2,56	5 56 90 9 29		
	FRE	IGHT	r eai	NING	8.			
Main line and branches: Local traffic, Through traffic,		- -	-	-	<b>\$</b> 505,30 74,92	1 53		
Total traffic,	-	-	-	-	<b>\$</b> 580,22	7 49		
Total freight department	nent e	arni	ngs,	-			<b>\$</b> 580,227	49
Proportion for Michiga Per train mile, Per mile of road,	<b>n,</b>	- -		- -		7 49 1 50 9 99		
Total transportation 17	earnin	gs,		-			<b>\$1,06</b> 5,823	05

				[===,
Transportation earnings per mile of Transportation earnings per train m Miscellaneous receipts from operati other than for transportation, as f From rentals of tracks or terminals,	ile, ng accour ollows:	\$8,097	15 56	
From other sources,		2,692	10	
		<b>\$10,7</b> 89	66	
Total earnings from operation of				\$1,076,612 71
Total earnings per mile of road, Total earnings per train mile,		\$5.696	36	
Total earnings per train mile,		1	16	
Proportion of earnings for Michigan		1,076,612	71	
Total earnings per mile of road in N	Iichigan,	5,696	36	
Total income from all sources,				\$1,076,612 71
Proportion of income for Michigan,	-			1,076,612 71
ANALYSIS	OF EXPE	INSES.		
Or was 1 Mainton and	o of Way a	md Duilding	••	,
CLASS 1Maintenanc	e oj way a	na Dunaing	18.	
Repairs of road way and track,	-			<b>\$</b> 82,273 37
Renewals of rails,		_		6,459 06
Renewal of ties,				33,817 79
Repairs of bridges, including culver	ts and cat	tle guards,	-	<b>15,591 25</b>
Repairs of fences, road crossings, an	id signs,			9,867 03
Repairs of buildings,			-	16,858 63
Total,				<b>\$</b> 164,867 13
Class 2.—Maintenance	of Motive I	Power and C	ars.	
Repairs of locomotives,				<b>\$42,842</b> 88
Repairs on passenger cars,	-	-	-	25,140 14
Repairs on freight cars,				43,800 45
ropairs on froight outs,		• •	-	
Total,			_	\$111,783 47
•				,
CLASS 3.—Conduc	ting Trans	portation.		
Fuel for locomotives,	_	_	_	<b>\$86,761 06</b>
Water supply,				3,986 81
Oil and waste,	-	-	_	6,976 57
Locomotive service,	-	_		85,972 33
Passenger train service,	_		_	23,785 14
Passenger train supplies,			-	4,800 00
Milage of passenger cars,			-	2,220 81
Freight train service,		-		30,958 25
Freight train supplies,		_	_	1,200 00
Milage of freight cars,	-	-	-	Cr. 594 29
Telegraph expenses (maintenance ar	nd operati	ng).		21,000 00
Damage and loss of freight and bagg	zare.	<del></del>	-	2,180 89
Damage to property and cattle,	o~5°, -		•	891 30
zamago to proporty und oddio,			-	00 <b>2</b> 00

	~-
•	דע
ı	21

DEIROII, GRA	ND HAVI	1214 OC	MTTT A	ACREE.	101 00	<i>,</i> ,	LUI
Personal injuries, Agents and station service,	-	-	-	-	-	<b>\$</b> 9,302	
Station supplies,	-	-	-	-	-	145,607 9,436	97
Total,		-	-			<b>\$</b> 434,485	04
CL	ass 4.—Ge	neral I	Expen	8e8.			
Salaries of the general offic		e <b>com</b> j	pany,		-	<b>\$13,346</b>	
Salaries of clerks in general	l offices,	-	-	-	-	28,957	
Law expenses,		-		-	-	6,294	
Insurance,					-	3,274	
Stationery and printing,	•		-			11,704	
Outside agencies and adver	tising,		-	-	-	16,875	
Contingencies,	_	-	-	-	-	5,829	
Taxes,		-	-		-	25,563	<b>42</b>
Total,		-	-	-	-	\$111,847	17
Maintenance of way and bu Maintenance of motive pow Conducting transportation, General expenses, including	er and ca g taxes,	-	-	20 13 52 13	ent of nses. 0.03 0.58 0.59	\$164,867 111,783 434,485 111,847	47 04 17
Total operating expenses,	, and taxe	es,	-	100	.00	\$822,982	81
Operating expenses and taxon run, for trains earning re	es per tra	in mi	le	<b>\$4,</b> 354	40	<u>.</u>	
miles,	-		_		89	٠	
Proportion of operating exp for Michigan, main line,	enses an	d tax	es - -	\$822,982	81		
Total proportion of expenses Percentage of expenses to e Net earnings per mile of ro Net earnings per train mile	earnings, ad, _	chiga 76.44 -	n, -	<b>\$1,341</b>	- 96 27	<b>\$</b> 822,982	81
<del>-</del>							
DE	ICI/ID TOMI	$\alpha \sim 140$	ы ра	A TO			

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Detroit, Michigan to Grand Haven, Michigan, Nov. 22, 1858.

#### MAIN LINE.

		Miles.	100ths.	Miles. 100ths.
In Michigan, from Detroit to Grand Haven,	-	189		
Total length completed,	-	-	-	189

Total largeth of road belonging to this company in	Miles, 100ths, Miles, 100ths,
Total length of road belonging to this company in Michigan, Aggregate length in Michigan of sidings, spurs,	189
and other tracks not above enumerated, Aggregate length of tracks in Michigan belonging	62.59
to this company, computed as single track,	251.59
Gauge of track, 4 feet 81 inches.	Total Miles, In Michigan,
Total miles operated by the company,	189 189
Number of Bridges and Trestles in Mi	chigan.
Iron bridges, number of, 21; aggregate length, Wooden trestles, number of, 42; aggregate length,	feet, 2,777 feet, 3,045
Total, 63;	5,822
Draw Bridges in Michigan.	
How many on your line? Where located, when built and length of draw sp Near Ferrysburg, one in 1869, two openings 75 feet two openings 60 feet each. Character of structure: Truss. Material of which constructed: Iron. Height above water, and depth of water under brid 1869 bridge, height 8 feet 7 inches, depth of wate 1870 bridge, height 9 feet 6 inches, depth of wate How swung, by engine or hand power? Hand power. Approaches, straight or curved: Two straight, two curved. Do you require all trains to come to a full stop and how are they signalled? Yes, and by distant semaphores.	ge: er 24 feet. er 16 feet. before crossing a draw,
Crossings—Railroad and Highwa	ıy.
What railroads cross your road at grade in this State Grand Trunk Ry., 4 miles west of Detroit. Detroit & Bay City R. R., 4 miles west of Detroi Michigan Air Line Ry., 1 mile east of Pontiac. Flint & Pere Marquette R. R. at Holly. Chicago & Grand Trunk at Durand. Toledo, Ann Arbor & North Michigan Ry. at Du Toledo, Saginaw & Mackinaw at Durand.	t.

Jackson, Lansing & Saginaw R. R. at Owosso.
Detroit, Lansing & Northern R. R. at Ionia.
Lowell & Hastings R. R. at Lowell.
Grand Rapids & Indiana R. R. at Grand Rapids.
Chicago & West Michigan Ry. at Grand Rapids and Ferrysburg.

What railroads State, and wh Over grade, Under grade, At what crossin None. Number of cros Number of cros which there a Number of cros signals, What pattern Number of cros 10; under 8) Number of high Number of high Have safety gu Are your frogs	ere? -None -Mu gs ar sings sings are gs sings or p sings hway hway ards l	of horid	gon, Gerlock highwa highwa or flag which rns in ighwa ges 18 ges le erecte	rand ing a sys at yays at yays men, there use? ys over the state of at o	Rapid nd de grade at	ls & I railin in the de in lectri- nary inder track feet a	ndian g swi ais Sta this c or a vibrat railro to bove bstru	a R. I tches ate, State utoma ting 8 bad (o	R. at Bin oper	erlin. ration?  248  25  ell.  18  5  Yes.
1883? Yes.						-	irea t	у ась	114, 86	SSION IAWS
How are they t	reate	d? <sup>-</sup>	With 1	plank	block	ing.				
				Sto	itions.					
Number of stat Same in Michig		on w	hole l	-		- -	- -	-	-	40 40
Number of per	ons r	egul	arly e	mploy	yed or	allı	absor	opera	ted	
by company, Same in Michi	inclu gan.	ding	officia	als,	-	-	-	-	-	1,080 1,080
	•		_				-	_	-	_,,,,,
. Classify your e	mplo	yés e	s per	follov	ving I	ıst:				Number.
Baggagemen										22
			-	-	_			_	_	47
Conductors,	_		-					_	_	30
Engineers,	_	_	-		_		_	-	_	48
Firemen,	_							_	_	<b>4</b> 8
Laborers,	_		_		_	-	_			358
Laborers, Shopmen, Yardmen	_	_			-					64
Yardmen,	_	_	-			-	_	-		34
Others,	_			_	_		-		_	<b>42</b> 9
•										<del></del>
Total,	-	-	-	-	-	-	-	-	-	1,080
			REPA	IRS AI	ND RE	NEWA	LS.			
			Fen	icina s	in Mic	hiaan				
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed. Fencing completed.										

#### Road Bed and Track.

Number of track sections in Michigan, Average length of sections (miles), Average number of men in each section gang, Number of new ties put in whole line during th Number of new ties put in track in Michigan, Average number of new ties per mile of road, New rails put in track: Steel (tons, 210), miles,	e year,	  	$\begin{array}{r} 37 \\ 5.1 \\ 4 \\ 111,602 \\ 111,602 \\ 590 \\ 2 \end{array}$
Total miles of track laid with new rails,	-	- ·	$\frac{2}{2}$
Bridges and Culverts.			•
Amount of trestle work replaced with earth (linear feet), Timber culverts replaced during the year, With iron pipe number, With timber—number, New bridges built during the year,	during	g year 13 11	156 24 None.
ROLLING STOCK.			
Number of learnestime of more than 20 town		Number.	Present Estimated Value.
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons weight,		27	<b>\$</b> 135,000 00
exclusive of tender,	_	14	42,000 00
Total,		41	\$177,000 00
Number of passenger cars—12 wheel, including official cars,  Number of passenger cars—8 wheel, including		2	8,000 00
official cars,		23	77,000 00
Number of express and baggage cars, Number of box freight cars,		$\begin{array}{c} 20 \\ 362 \end{array}$	38,600 00 135,750 00
Number of stock cars,		44 44	17,600 00

Total, 700 \$535,075 00 Number of locomotives equipped with power brakes, 14

45 with power brakes, Number of freight cars equipped with power brakes,—None.

Number of platform cars,

Other cars as follows:

Number of conductors' way cars,

Number of passenger-train cars equipped

What patterns of power breaks have you in use, and number of locomotives and cars with each? Westinghouse. Locomotives—14; cars—45.

199

21

29

54,725 00

14,700 00 11,700 00

Are your freight cars being equipped with automatic couplers as required by Act. No. 147, Session Laws of 1885? Waiting Michigan Car Builders' type to be adopted.

22,308

What pattern or patterns have you adopted for use? "McCree" and "Aikman," but withdrawing them.

How are your passenger cars heated? Baker heater—hot water.

#### MILEAGE, TRAFFIC, ETC.

#### Train Mileage.

Train Mileag			
Miles run by passenger trains during the Miles run by freight trains during the year Miles run by mixed trains,  Total mileage of trains earning revenue,	year,	-	457,918 305,345 160,895 924,158
Passenger Tra	ffic.		
Number of through passengers carried, Number of local passengers carried,	Numbers and Quantities. 4,251 591,851	Miles. D	Hate. collars. Cents.
Total number of passengers carried,	596,102		
Total passenger mileage, or passengers carried Average distance traveled by each passeng Average amount received from each passeng Average rate of fare per mile for through Average rate of fare per mile for local passenger at each passenger are of fare per mile for all passenger at each passenger at	ger, nger, passengers, sengers,	18,189,566 30.6	
Freight Traj	Ac.		
Number of tons of through freight carried,	Numbers and Quantities.	Miles. D	Rate. Pollars, Cents.
Total tons of freight carried,	567,875		
Total tons of freight carried,  Total mileage of through freight,  Total mileage of local freight,	567,875	16,617,6 28,030,4	
Total mileage of through freight,	, - 	16,617,6	<u>25</u>
Total mileage of through freight, Total mileage of local freight,	one mile,  l, r through fr	16,617,6 28,030,4 44,648,1 189 58. 78.	25 11 4
Total mileage of through freight, Total mileage of local freight,  Total freight mileage, or tons carried  Average ton haul for through freight, Average ton haul for local freight, Average ton haul for all freight, Average amount received for each ton hau Average rate per ton per mile, received fo Average rate per ton per mile, received fo	one mile,  l, r through fr r local freight,	16,617,6 28,030,4 44,648,1 189 58. 78. eight,	25 

Flour, Provisions (beef, pork, lard, etc.),

Animals,

136 MICHIGA	AN RA	LILRO	AD R	ETUR:	ns.		[Dec. 31,
Other agricultural products,							Tons. 34,141
Lumber and forest products,		-	-	-	-	_	131,185
Λ <sub>2-1</sub> ΄	-	-	-		-	-	42,109
Plaster, lime and cement,	-	-	-	-	-	-	9,403
Q-14		-	-	-	-	-	2,621
Petroleum,	-	-	-	-	-	-	
Railroad iron, iron and steel	i.	-	-	-		-	1,436
Dig and bloom iron	raiis,	-	-	-	-	-	409
Pig and bloom iron, Other iron and castings,	-	-	•	-	-	-	162
	-	-	-	-	-	-	6,532
Ores,	-	-	-	-	-	-	41
Stone, brick and sand,	3.6		, -,	٠,		-	28,662
Manufactures—articles shipp	ea iroi	n pou	nt or E	roduc	tion,	-	21,479
Merchandise and other article	es not	enum	erated	l abov	е,	-	93, <del>44</del> 5
Total forwarded,	-	-	-	-		-	483,263
Tonnage of Ar	ticles T	ranspo	orted-	Entire	Road.		
				1	To	ons.	Per Cent.
Grain,	_	_	_		62,6	93	11.04
Flour.	_	_			74,1	01	13.05
Provisions (beef, pork, lard,	etc.).		_		4.6		.82
Animals,	,,				23,4		4.13
Other agricultural products,	-	-	-		36,5		6.43
Lumber and forest products,	-	-	-		131,1		23.10
Coal,	-	-	-		42,1		7.42
Plaster, lime and cement,	-	-	-		9,4		1.67
a u	-	-	-		2,6		.46
Petroleum,	-	-	-		1,4	26	.25
	nila	-	-		1,4	60	.10
Railroad iron, iron and steel r	ъщь,	-	-				
Pig and bloom iron,	-		-		1,8		.33
Other iron and castings,	-	-	-			<b>54</b>	1.15
Ores,	-	-				41	.01
Stone, brick and sand,	ī.,	-	,		28,6	62	5.05
Manufactures—articles shipp	ed fro	om poi	ınt				

#### ADDITIONAL QUESTIONS.

not

articles

of production,

enumerated above,

Total tons carried,

Merchandise

and other

21,479

120,430

567,875

3.78

21.21

100.00

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company has exclusive right for passenger trains and pays \$50.00 per day for not exceeding 5,000 pounds per day and 60 cents per 100 pounds excess, carrying light freight, money, etc., and taking freight to and from depot.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

189 miles of single wire belonging to the Western Union Telegraph
Company using the railroad company's poles. A second wire 46½ miles
long of same telegraph company with poles runs between Detroit and Holly.

#### Transportation Companies.

#### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Company, New York, City, N. Y., terms three cents

per car per mile, amount paid \$3,998.82.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

~ <del>-</del>		
Armour & Co., Refrigerator Line, Chicago, Illinois	<b>\$</b> 6	<b>34</b>
Arms Palace Horse Car Co., Chicago, Illinois	5	97
American Refrigerator Transit Co., St. Louis, Missouri	10	89
Anglo American Provision Co., Chicago, Illinois	2	01
Atlanta Stone Coal & Lumber Line, Atlanta, Georgia		90
Brill, J. G., Philadelphia, Pennsylvania	5	89
Cutler & Savidge Lumber Co., Spring Lake, Michigan	48	63
Columbus & Hocking Coal & Iron Co., Columbus, Ohio	23	94
Chicago Refrigerator & Car Co., LaFayette, Indiana	89	81
Chicago Boston & Liverpool Co., St. Albans, Vermont	214	65
Cygnet Tank Line, Cleveland, Ohio	3	00
Doll, Jacob & Son, Kansas City, Missouri		<b>50</b>
Eagle Consolidated Tank Line, Cleveland, Ohio	12	<b>56</b>
Hammond Refrigerator Line, Chicago, Illinois	13	79
Kansas City Dressed Beef Line, Kansas City, Missouri		13
Lima Oil Co., Lima, Ohio	9	<b>7</b> 3
Michigan Ammonia Works, Detroit, Michigan	29	33
Michigan Salt Line, East Saginaw, Michigan	8	02
Morris & Co., Chicago, Illinois	122	11
Merchants' Despatch Transport. Co., New York City, N. Y.	692	
National Car Co., St. Albans, Vermont	3,352	99
New York Despatch Refrigerator Line, New York City, N. Y.	753	05
Parker, D. W., Kalamazoo, Michigan	3	97
Peerless Tank Line, Cleveland, Ohio	4	06
Rend, W. P., Chicago, Illinois		18
Swift's Refrigerator Line, Chicago, Illinois	8	09

Street's Stable Car Line, Chicago, Illinois	-	_		<b>\$14</b> 15
Southern Iron Car Line, Atlanta, Georgia		_		2 83
St. Louis Refrigerator Line, St. Louis, Missouri	_			20 65
Sun Oil Line Co., Toledo, Ohio	_	_	_	31
Union Tank Line, New York City, New York		_	_	60 38
Union Iron Co., Detroit, Michigan	_	-		173 18
Total		_	_	<b>\$</b> 5,695 56

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

February 23, M. Cheney, farmer, Fenton. Trespasser.

September 24, Thomas Noonan, laborer, Transit Road, Detroit. Highway collision.

October 11, Edward Pettis, citizen, Holly. Intoxicated, highway collision.

December 13, J. Bernfeldt, citizen, Detroit. Highway collision. Railroad company exonerated in all cases.

#### INJURED.

March 24, F. Todd, engineer, Pontiac. Examining engine; lack of caution.

May 28, H. S. Lyons, tramp, Pontiac. Fell from train; his own fault. June 25, John Stochowiak, a boy, Detroit. Fell from train; his own fault.

July 22, James Doak, L. S, & M. S. Ry. employee, Detroit. Struck by engine; his own fault.

August 2, F. W. French, school teacher, Owosso. Trespasser; his own fault.

October 4, J. P. Heifner, tramp, Detroit. Trespasser; his own fault, October 4, A. C. Heifner, tramp, Detroit. Trespasser; his own fault.

November 4, Anthony Plet, a boy, Detroit. Fell from train; his own fault.

December 23, W. Daniels, brakeman, Holly. Staking cars; purely accidental.

December 25, J. McMahon, brakeman, Detroit. Fell off car bumper; his own fault.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

			Injured.			
Cause of Accident,	1					
	Passengers.	Employés.	Others.	Passengera.	Employés,	Others.
						-
Collisions					·	<b></b>
Coupling cars.					<b></b> ;	
Derailments Falling from trains					1	
Frogs.						·
Hetting on and off trains						
Miscellaneous		l <u></u>			2	
Overhead obstructions						
			1	1		
-				•		
	1					
Total		!	4		8	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

•		
Number of persons killed during the year,	_	4
Number of persons injured during the year,	_	10
Number of casualties purely accidental,	_	2
Number resulting from lack of caution, carelessness,	$\mathbf{or}$	
misconduct.		12
Persons killed or injured while intoxicated,	-	-ī
Trespassers and tramps killed or injured,	-	7
	-	` ·
Suicides,	-	$\mathbf{None}.$

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	Killed,	Injured.	Total,
	-		
Baggagemen			İ
Brakemen			2
Conductors			
Engineers		1	1
Piremen.			
Laborers		1	
Shopmen			
Yardmen			
Not classified above		1	
3100 0000000000000000000000000000000000		1	
	-		
Total	İ	8	
A VVIII		,	,

# STATE OF MICHIGAN, COUNTY OF WAYNE.

W. J. Spicer, General Manager, and James H. Muir, Secretary and Treasurer, of the Detroit, Grand Haven & Milwaukee Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, W. J. SPICER, (teneral Manager. JAS. H. MUIR, Secretary and Treasurer.

Subscribed and sworn to before me this 26th day of March, A. D. 1890.
[L. S.]

A. B. Thomas,

Notary Public, Wayne County.

#### ANNUAL REPORT

#### OF THE

# TOLEDO, SAGINAW & MUSKEGON RAILWAY COMPANY,

For the Year Ending December 31, 1889.

#### [Filed March 28, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, SIR JOSEPH HICKSON, Montreal, Quebec.
Vice President, and General Manager, W. J. SPICER, Detroit, Mich.
Secretary and Treasurer, JAMES H. MUIR, Detroit, Mich.
Superintendent, A. B. ATWATER, Detroit, Mich.
Chief Engineer, GEORGE MASSON, Detroit, Mich.
Traffic Manager, JOHN W. LOUD, Detroit, Mich.
Counsel, E. W. MEDDAUGH, Detroit, Mich.

#### DIRECTORS.

SIR JOSEPH HICKSON, Montreal, Quebec. W. J. SPICER, Detroit, Mich.
A. B. MAYNARD, Detroit, Mich.
E. W. MEDDAUGH, Detroit, Mich.
C. JESSE CHURCH, Greenville, Mich.
HENRY HOWARD, PORT HURON, Mich.
F. E. RANKIN, Detroit, Mich.
L. C. STANLEY, Detroit, Mich.
GEORGE MASSON, Detroit, Mich.
LYMAN E. MASON, Muskegon, Mich.
E. MIDDLETON, Greenville, Mich.

Terms expire second Wednesday in April, 1890, or when their successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

when articles of association filed,—January 25, 1886.								
Number of stockholders at date of last election,	-	-	-	-	-	12		
Number of stockholders in Michigan at same date,	-	-	-	-	+	10		
Amount of full paid stock held in Michigan at same date,	-	-	-	-	\$1,000	00		
Date of annual meeting of stockholders,—Second Wednesday in April.								
Fiscal year of company ends,—December 31.								
General offices of the company are located at Detroit, Mic	h.							

1,600,000 00

**\$16,666** 67

#### GENERAL EXHIBIT.

		Del	bit.	Cr	edit.
 	-	<b>\$</b> 89,893	96	<b>\$</b> 91,870	24
-	-	-	-	\$1,976	28
<b>\$7</b> 8,000	00				
33,587	50				•
		<b>\$44.412</b>	<b>50</b>		
-	-			45 101	99
=	_	\$43,215	64	40,191	92
-	_	27,828	23		
, -	-		-	71,043	87
	_	<b>\$</b> 71,043	87	<b>\$71,043</b>	87
CAPITAI	ST	OCK.			
ticles of a \$100 00 16,000		ŕ		1,600,000	00
	33,587  CAPITAL ticles of a	CAPITAL STV ticles of assoc \$100 00 16,000	\$78,000 00  33,587 50  \$44,412 779  \$43,215 27,828  \$71,043  CAPITAL STOCK.  ticles of association, \$100 00 16,000	33,587 50 \$44,412 50 779 42 \$43,215 64 27,828 23 \$71,043 87 CAPITAL STOCK. ticles of association, \$100 00	\$89,893 96 \$1,976 \$78,000 00  \$33,587 50

#### ANALYSIS OF DEBT ACCOUNTS.

Total amount paid in, as per books of the company,
Paid in per mile of road owned
by company,—96 miles,
\$16,

#### FUNDED DEBT.

Class, Character and Date of Issue.	Bate of Interest.	When Due.	Where Payable.	Amount.		
First mortgage bonds, dated July 2, 1888	5%	July 1, 1918	New York	\$1,560,000 00		
Total funded debt.						

#### UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
For Construction		
FOR Kenewals		
For Miscellaneous For Current Balances		\$102,751 88
Total Unfunded Debt		\$102,751 83

#### RECAPITULATION.

	_						
Total funded debt, Total unfunded debt,		-	-	-	-	\$1,560,000 102,751	
Total debt liabiliti	es,	-	-	-		<b>\$1,662,751</b>	83
Amount of debt liabili	ties per	r mile	e of	road,	- 96 miles,	17,320	33
Total amount of st	ock and	d deb	t,	-		<b>\$3,262,751</b>	83
Stock and debt per mil	e of ro	ad,- 9	96 mi	les,		33,987	00
GE	NERAI	BAL	ANCI	E SHI	EETDr.		
Construction and equip	ment a	ccour	nt,		-	<b>\$</b> 3,160,000	00
Cash items: Cash, Due from agents,	-	-	-	-	\$2,356 8 5,319 4		90
Other assets:  Materials and suppli Debit balances from individuals,		anies	and	-	\$11,396 3 12,635 3	31 86	
Deficit,						- <b>24,031</b> 71,0 <b>43</b>	
Total,	-			-	-	<b>\$</b> 3,262,751	83
GE	NERAL	BAL	ANC	E SH	EETCr.		
Capital stock, Funded debt,	-			-	\$1,600,000 ( 1,560,000 (		00
Unfunded debt: Interest unpaid, Vouchers and accoun	ıts,		-	-	\$67,194 4 35,557 3	 14	
Total,	-	-	-	-	-,	\$3,262,751	83
COST OF ROAD AND EQUIPMENT.							
Purchased by Present Company.							
When purchased,—Aug Original cost to present Total cost to date of re Average cost per mi —96 miles, Proportion of cost for l	t compa port, le of	ny of road	_	_		3,160,000	00 67

# ANALYSIS OF EARNINGS.

#### PASSENGER EARNINGS.

PASSENGER EARNING	38.	
Main line and branches: Local fares, Through fares,	\$24,208 69 3,844 09	
Total passenger fares, Express and baggage, Mails,	\$28,052 78 725 80 4,497 00	
Total passenger department earnings,		<b>\$</b> 33, <b>27</b> 5 58
Proportion for Michigan, Per train mile, Per mile of road,	<b>\$33,275</b> 58 39 346 62	
FREIGHT EARNINGS	3.	
Main line and branches:  Local traffic,  Through trafic,	\$45,529 37 13,065 29	
Total traffic,	<b>\$</b> 58,594 66	
Total freight department earnings,		<b>\$</b> 58,594 <b>6</b> 6
Proportion for Michigan, Per train mile, Per mile of road,	\$58,594 66 1 00 610 36	•
Total transportation earnings,		91,870 24
Transportation earnings per mile of road, Transportation earnings per train mile,	<b>\$</b> 956 98 52	
Total earnings from operation of road,		91,870 24
Total earnings per mile of road, Total earnings per train mile, Proportion of taxable earnings for Michigan,	<b>\$9</b> 56 98 52	91,870 24
Total taxable earnings per mile of road in Michigan,	956 98	•
Total income from all sources, Proportion of income for Michigan,		\$91,870 24 91,870 24
ANALYSIS OF EXPEN	ises.	
CLASS 1 Maintenance of Way of	ınd Buildings.	
Repairs of road way and track, Renewals of ties, Repairs of bridges, including culverts and cat Repairs of fences, road crossings and signs, Repairs of buildings,	tle guards,	\$19,274 37 467 62 6,349 87 488 65 1,279 92
Total,		\$27,860 43

#### CLASS 2.—Maintenance of Motive Power and Cars.

Repairs of locomotives, and the properties of passenger cars, and the properties of freight cars, and the properties of freight cars, and the properties of freight cars, and the properties of freight cars, and the properties of freight cars, and the properties of freight cars, and the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the property and cattle, and the properties of the property and printing, an	Olhos M-	AEE (3070)	enunc.	<i>i</i> 0, 1	20000	1 ower	and Care.		
Repairs of passenger cars,	Renairs of locomotives							<b>\$</b> 6 031	99
Total			-	-	•		-		
Total,   \$10,002 08			- •	-	-	-	-		
Tuel for locomotives,   \$12,311 72   Water supply,   665 59   665 59   779 66   12,359 26   665 59	mepairs of freight cars,		-	-	-	-		2,011	10
Tuel for locomotives,   \$12,311 72   Water supply,   665 59   665 59   779 66   12,359 26   665 59				٠			•		
Substitution   Subs	Total,	_	_	_		_		<b>\$10,002</b>	08
Substitution   Subs	•							·	
Substitution   Subs	Ct.At	aa 9	Condu	ctino	Tran	enorta	tion.		
Water supply,       665 59         Oil and waste,       779 66         Locomotive service,       12,359 26         Passenger train service,       3,867 39         Passenger train supplies,       350 00         Freight train service,       3,643 14         Freight train supplies,       600 00         Mileage of freight cars,       488 00         Telegraph expenses (maintenance and operating),       2,136 00         Damage and loss of freight and baggage,       80 26         Damages to property and cattle,       150 52         Personal injuries,       320 00         Agents and station service,       8,523 14         Station supplies,       737 70         Total,       \$47,012 38         CLASS 4.—General Expenses.         Stationery and printing,       1,519 87         Outside agencies and advertising,       284 74         Contingencies,       729 58         Taxes,       1,828 31         Total,       \$5,019 07         RECAPITULATION OF EXPENSES.         Maintenance of way and buildings,       30.99       \$27,860 43         Maintenance of motive power and cars,       11.13       10,002 08	VIII.	35 <b>C</b> .	cona	county		opor tu			
Oil and waste,       779 66         Locomotive service,       12,359 26         Passenger train service,       3,867 39         Passenger train supplies,       350 00         Freight train service,       3,643 14         Freight train supplies,       600 00         Mileage of freight cars,       488 00         Telegraph expenses (maintenance and operating),       2,136 00         Damages and loss of freight and baggage,       80 26         Damages to property and cattle,       150 52         Personal injuries,       320 00         Agents and station service,       8,523 14         Station supplies,       737 70         Total,       \$47,012 38         CLASS 4.—General Expenses.         Stationery and printing,       1,519 87         Outside agencies and advertising,       284 74         Contingencies,       729 58         Taxes,       1,828 31         Total,       \$5,019 07         RECAPITULATION OF EXPENSES.         Maintenance of motive power and cars,       11.13       10,002 08         Maintenance of motive power and cars,       11.13       10,002 08         Conducting transportation,       52.30       <	Fuel for locomotives,	_	_	_	_	-		<b>\$</b> 12,311	72
Oil and waste,       779 66         Locomotive service,       12,359 26         Passenger train service,       3,867 39         Passenger train supplies,       350 00         Freight train service,       3,643 14         Freight train supplies,       600 00         Mileage of freight cars,       488 00         Telegraph expenses (maintenance and operating),       2,136 00         Damages and loss of freight and baggage,       80 26         Damages to property and cattle,       150 52         Personal injuries,       320 00         Agents and station service,       8,523 14         Station supplies,       737 70         Total,       \$47,012 38         CLASS 4.—General Expenses.         Stationery and printing,       1,519 87         Outside agencies and advertising,       284 74         Contingencies,       729 58         Taxes,       1,828 31         Total,       \$5,019 07         RECAPITULATION OF EXPENSES.         Maintenance of motive power and cars,       11.13       10,002 08         Maintenance of motive power and cars,       11.13       10,002 08         Conducting transportation,       52.30       <	Water supply,	_	_	_	_		-		
Locomotive, service,   12,359 96		_	_	_		_		779	66
Passenger train service, 3,501 % Freight train service, 3,643 14 Freight train supplies, 600 00 Mileage of freight cars, 488 00 Telegraph expenses (maintenance and operating), 2,136 00 Damage and loss of freight and baggage, 80 26 Damages to property and cattle, 150 52 Personal injuries, 320 00 Agents and station service, 8,523 14 Station supplies, 737 70  Total, \$47,012 38  Class 4.—General Expenses.  Salaries of clerks in general offices, 367 07 Stationery and printing, 1,519 87 Outside agencies and advertising, 284 74 Contingencies, 729 58 Taxes, 1,828 31  Total, \$5,019 07  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 Maintenance of motive power and cars, 11.13 10,002 08 Conducting transportation, 52.30 47,012 38	Locomotive service.	_	_	_		_		12,359	26
Passenger train supplies,   350 00	Passenger train service.		_	_	_			3,867	39
Treight train service,   3,643 14   Freight train supplies,   600 00   Mileage of freight cars,   488 00   Telegraph expenses (maintenance and operating),   2,136 00   20   20   20   20   20   20   20	Passenger train supplier	в.		_		-			
Freight train supplies,						_			
Mileage of freight cars,       488 00         Telegraph expenses (maintenance and operating),       2,136 00         Damage and loss of freight and baggage,       80 26         Damages to property and cattle,       150 52         Personal injuries,       320 00         Agents and station service,       8,523 14         Station supplies,       737 70         Total,       \$47,012 38         Class 4.—General Expenses.         Salaries of clerks in general offices,       367 07         Stationery and printing,       1,519 87         Outside agencies and advertising,       284 74         Contingencies,       729 58         Taxes,       1,828 31         Total,       \$5,019 07         RECAPITULATION OF EXPENSES.         Maintenance of way and buildings,       30.99       \$27,860 43         Maintenance of motive power and cars,       11.13       10,002 08         Conducting transportation,       52.30       47,012 38									
Telegraph expenses (maintenance and operating), Damage and loss of freight and baggage, S0 26	Mileage of freight cars	-	-	-	•	-	-		
Damage and loss of freight and baggage,   150 52	Telegraph expenses (ma	inten	ance :	and o	perat	ing).	•	2.136	00
Damages to property and cattle,   150 52	Damage and loss of free	ight s	and be	LOOR	ze.	··· 8			
Personal injuries,					5~,		•		
Agents and station service, 8,523 14 Station supplies, 737 70  Total, \$47,012 38  Class 4.—General Expenses.  Salaries of clerks in general offices, 367 07 Stationery and printing, 1,519 87 Outside agencies and advertising, 284 74 Contingencies, 729 58 Taxes, 729 58 Taxes, 1,828 31  Total, \$5,019 07  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43 Maintenance of motive power and cars, 11.13 10,002 08 Conducting transportation, 52.30 47,012 38	Parsonal injuries	ia ca	, , , , , , , , , , , , , , , , , , ,	-	,	-	-		
Total,   \$47,012 38	A cents and station servi	ico		-		-	-		
Total, \$47,012 38  CLASS 4.—General Expenses.  Salaries of clerks in general offices, \$289 50 Insurance, 367 07 Stationery and printing, 1,519 87 Outside agencies and advertising, 284 74 Contingencies, 729 58 Taxes, 1,828 31  Total, \$5,019 07  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43 Maintenance of motive power and cars, 11.13 10,002 08 Conducting transportation, 52.30 47,012 38	Station cumplies	······································		-		•	-	737	70
CLASS 4.—General Expenses.  Salaries of clerks in general offices, \$289 50 Insurance, 367 07 Stationery and printing, 1,519 87 Outside agencies and advertising, 284 74 Contingencies, 729 58 Taxes, 1,828 31  Total, \$5,019 07  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43 Maintenance of motive power and cars, 11.13 10,002 08 Conducting transportation, 52.30 47,012 38	Station supplies,	-	-	-	-	-	-	101	10
CLASS 4.—General Expenses.  Salaries of clerks in general offices, \$289 50 Insurance, 367 07 Stationery and printing, 1,519 87 Outside agencies and advertising, 284 74 Contingencies, 729 58 Taxes, 1,828 31  Total, \$5,019 07  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43 Maintenance of motive power and cars, 11.13 10,002 08 Conducting transportation, 52.30 47,012 38	•						•		
Salaries of clerks in general offices, Insurance, 367 07   Stationery and printing, 1,519 87   Outside agencies and advertising, 284 74   Contingencies, 729 58   Taxes, 729 58   I,828 31   Total, \$5,019 07	Total,	-	-	-	-	-		<b>\$4</b> 7,012	38
Salaries of clerks in general offices, Insurance, 367 07   Stationery and printing, 1,519 87   Outside agencies and advertising, 284 74   Contingencies, 729 58   Taxes, 729 58   I,828 31   Total, \$5,019 07									
Insurance,   367 07   Stationery and printing,   1,519 87   Outside agencies and advertising,   284 74   Contingencies,   729 58   Taxes,   1,828 31     Total,   \$5,019 07     \$5,019 07		CLAS	s 4.—(	Jener	al Exp	enses.			
Insurance,   367 07   Stationery and printing,   1,519 87   Outside agencies and advertising,   284 74   Contingencies,   729 58   Taxes,   1,828 31     Total,   \$5,019 07     \$5,019 07	Galanian of alamba in man	1	.æ					ക്കാവ	ĒΩ
Stationery and printing,   1,519 87   284 74   729 58   729 58   729 58   1,828 31		ierai	omces	,		-	-		
Outside agencies and advertising, 284 74 Contingencies, 729 58 Taxes, 1,828 31  Total, \$5,019 07  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43 Maintenance of motive power and cars, 11.13 10,002 08 Conducting transportation, 52.30 47,012 38		•	-	-		-	•		
Contingencies, 729 58 Taxes, 729 58 1,828 31  Total, \$5,019 07  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43 Maintenance of motive power and cars, 11.13 10,002 08 Conducting transportation, 52.30 47,012 38	Stationery and printing			-	-	-	•		
Total, 1,828 31  Total, \$5,019 07  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43  Maintenance of motive power and cars, 11.13 10,002 08  Conducting transportation, 52.30 47,012 38			sing,			-			
Total, \$5,019 07  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43  Maintenance of motive power and cars, 11.13 10,002 08  Conducting transportation, 52.30 47,012 38	Contingencies,	-	-	-	-		-		
RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43  Maintenance of motive power and cars, 11.13 10,002 08  Conducting transportation, 52.30 47,012 38	Taxes,	-				-		1,828	31
RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43  Maintenance of motive power and cars, 11.13 10,002 08  Conducting transportation, 52.30 47,012 38	•								
RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 30.99 \$27,860 43  Maintenance of motive power and cars, 11.13 10,002 08  Conducting transportation, 52.30 47,012 38	Total,	_	_	_	_			<b>\$</b> 5,019	07
Maintenance of way and buildings, 30.99 \$27,860 43 Maintenance of motive power and cars, 11.13 10,002 08 Conducting transportation, 52.30 47,012 38	,								
Maintenance of way and buildings, 30.99 \$27,860 43 Maintenance of motive power and cars, 11.13 10,002 08 Conducting transportation, 52.30 47,012 38	RI	ECAPI'	<b>TULAT</b>	ION	OF EX	PENSI	E8.		
Maintenance of way and buildings, 30.99 \$27,860 43  Maintenance of motive power and cars, 11.13 10,002 08  Conducting transportation, 52.30 47,012 38									
Maintenance of way and buildings,30.99\$27,860 43Maintenance of motive power and cars,11.1310,002 08Conducting transportation,52.3047,012 38							Per cent of Expenses.		
Maintenance of motive power and cars, 11.13 10,002 08 Conducting transportation, 52.30 47,012 38	Maintenance of way and	hnil	dinos					\$27.860	43
Conducting transportation, 52.30 47,012 38	Maintenance of motive	กกพอเ	r and	CATE	-	-			
	Conducting transportati	on On	and	ours,	-	-			
Monorar exhamson' incinding saves! 0.00 0'019 01	General expenses include	оц, Jina	-	-	-	-			
-	General expenses, includ	ıı ııR	ugaco,	-	-	-	0.00	0,010	0.

Total operating expenses and taxes,

\_ 100.00

**\$**89,893 96

Operating expenses and taxes per mile Operating expenses and taxes per tra- run, for trains earning revenue,—	<b>\$</b> 936 <b>4</b> 0				
miles.		_	51		
Proportion of operating expenses and Michigan:	taxes for				
Main line,		89,893	96		
Total proportion of expenses for Mi	chigan,	-	-	\$89,893	96
Percentage of expenses to earnings, Net earnings per mile of road, Net earnings per train mile,	97.85%	<b>\$2</b> 0	58 01		

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Ashley, Michigan, to Muskegon, Michigan, August 1, 1888.

#### MAIN LINE.

In Michigan, from Ashley to Muskegon, 2 96.0	00ths, Miles. 100ths, 00						
Total length completed,	- 96.00						
Total length of road belonging to this company,	96.00						
Total length of road belonging to this company in Michigan, 96.00 Aggregate length in Michigan, of sidings, spurs,							
and other tracks not above enumerated, 2 8.0	)9						
Aggregate length of tracks in Michigan belonging to this company, computed as single track,							
Gauge of track, 4 feet 8½ inches.	T. 381-11						
Total miles operated by the company, 96.00	In Michigan. 96.00						
Number of Bridges and Trestles in Michigan.							
Wooden bridges, number of Wooden trestles, number of 70; Aggregate length, fee	et, 375 et, 6,837						
Total,	7,212						

#### Crossings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Detroit, Lansing & Northern Railroad at Sheridan.

Detroit, Lansing & Northern Railroad at Greenville.

Grand Rapids & Indiana Railroad at Cedar Springs.

Chicago & West Michigan Railway at Sparta. Chicago & West Michigan Railway at Fruitport Junction. Chicago & West Michigan Railway at Muskegon.										
What railroads cross your road either over or under your grade in this State, and where? None.										
At what crossing	zs are	inte	rlock	ing a	nd de	eraili	ng sw	ritche	s in ope	eration?
Detroit, Lansi Detroit, Lansi Grand Rapids Chicago & We Chicago & We Chicago & We	ng & ng & In st M est M	Nor Nor dian ichig	therr therr a rai gan ra gan r	raili raili lroad ailwa ailwa	road cross y cross y cros	crossi crossi sing a ssing	ing at ing at it Cec at Sp at Fr	Sher Gree dar Sp parta.	ridan. enville. erings. ert June	
What pattern company's design	or pat gn an	ttern d wo	s hav rkma	e you inshij	ador p.	oted?	Wh	arton	's Railr	oad Switch
Number of cros	sings	of l	nighv	vays	at gr	ade i	n thi	is Sta	ite,	125
Number of cross at which there	sings sare (	or r zates	or f	ays lagme	at gr en.	ace :	ın tn	18 Su	ate	None.
Number of cro	esing	s at	wh	ich ·	there	are	elec	etric	or	NT
automatic sign Number of cross	1818, sings	of h	igh <b>w</b>	- avs o	- ver o	- r und	- ler ra	ilroad	- l:	None.
Over, $1$ . Un	ider,-	-2,			-	_	_	-	-	3
Number of high Have safety gua	way t rds b	oridg een e	es 18 Prècte	o teet	abov -over	e trac head	ck, obst	ructio	ns.	1 Yes.
Are your frogs a	ınd gr	uard	rails	bloc	ked a	s rec	uirec	l by	act	
174, session la How are they tr	ws of eated	? V	კ, Vith	- plank	- c bloc	king.	-	-	-	$\mathbf{Y}$ es.
220 W G2C Unloy U	00000	• '		-						
					ations	•				
Number of static						-	-	-		25 25
Same in Michig	an,	-	-		-	-	-	-	-	29
				$oldsymbol{E}$	mploy	és.				
Number persons	regu	larly	emj	oloye	d on	all ro	ads	opera	ted	
by company, i	nelud		offici	als,	-	-	-	-	-	101
Same in Michig Classify your en		- 6a oa	-	- fallar	- 	- list.	-	-	-	101
Classify your en	прюу	es as	per	TOHO	wmg	1150.				Number.
Baggagemen,	_	_	_	_	_	_	_	_	_	2
Brakemen, Conductors, Engineers, Firemen, Laborers, Shopmen, Yardmen,	_	_	_	-	_	_	_	_	_	<b>6</b>
Conductors,	_	_	-	-	_	_	-	-	-	4
Engineers,	-	-	-	-	-	-	_	-	_	5
Firemen,	-	-	-	-	-	-	-	-	-	6
Laborers,	-	-	-	-	-	-	-	-	-	42
Shopmen,	-	-	-	-	-	-	-	-	-	2
Yardmen,	-	-	-	-	-	-	-	-	-	1
Others, $-$	-	-	-	-	-	-	-	-	-	33

#### REPAIRS AND RENEWALS.

#### Fencing in Michigan.

reacting in microg	ин.							
How many miles of fencing have you?		182.38						
Give the number of miles required to computrack, in Michigan, and the counties in wh	lete fence bot sich needed:	th sides of your						
Muskegon county,		5.50						
Kent county,	-	.75						
Gratiot county,		. 1.75						
Montcalm county,	<u>-</u>	1.61						
Total miles required,		9.61						
Road Bed and Tra	ek.							
Number of track sections in Michigan,		10						
Average length of sections (miles),		<b>. 9.6</b>						
Average number of men in each section gang	g,	_ 4.5						
ROLLING STOC	K.							
	Number.	Present Estimated Value.						
Number of locomotives of more than 30 tons	Number.	Estimated value.						
weight, exclusive of tender,		<b>\$25,000</b> 00						
Number of locomotives of 20 to 30 tons		•						
weight, exclusive of tender,	:	3,000 00						
Total,		6 <b>\$28,000 00</b>						
Number of passenger cars—8 wheel, includ-								
ing official cars,	•	2 8,000 00						
Number of express and baggage cars,		4 10,000 00						
Number of box freight cars,	8							
Number of platform cars,	5							
Number of conductors' way cars,		2 3,000 00						
Total,	14	\$98,600 00						
Number of locomotives equipped with po	War							
brakes,	wei	2						
Number of passenger-train cars equipped v	vith	-						
power brakes,		6						
Number of freight cars equipped with power	r brakes. No							
What patterns of power brakes have you i	n use, and nu	mber of locomo-						
What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse. Two locomotives and eight cars.								
Are your freight cars being equipped with automatic couplers as required								
by Act No. 147, Session Laws of 1885? Yes	<b>).</b>	_						
What pattern or patterns have you adop	ted for use?	McCree & Aik-						

man's, but withdrawing them.

How are your passenger cars heated? Baker heater,—hot water.

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Train Mileage.							
Miles run by passenger trains during the year. Miles run by freight trains during the year, Miles run by mixed trains,	103,637 694 70,699						
Total mileage of trains earning revenue,	175,030						
Passenger Traffic.							
Number of through passengers carried, Number of local passengers carried, 52,722	Rate. Miles. DollarsCents.						
Total number of passengers carried, 54,653							
Total passenger mileage, or passengers carried one mile, Average distance traveled by each passenger, Average amount received from each passenger, Average rate of fare per mile for through passengers, Average rate of fare per mile for local passengers, Average rate of fare per mile for all passengers, O2.07 Average rate of fare per mile for all passengers, O2.62							
Number of tons of through freight carried, 16,295 Number of tons of local freight carried, 61,857	Rate. Miles. Dollars. Cents.						
Total tons of freight carried, 78,152							
	1,564,320 2,049,790						
Total freight mileage, or tons carried one mile,	3,614,110						
Average ton haul for through freight,  Average ton haul for local freight,  Average ton haul for all freight,	96 33.1 46.2						
Average amount received for each ton haul, Average rate per ton per mile received for through freig Average rate per ton per mile, received for local freigh Average rate per ton per mile, received for all freight,	it, 02.22						
Freight Forwarded at Michigan Stations.							
Grain, Flour, Provisions (beef, pork, lard, etc.), Animals, Other agricultural products, Lumber and forest products, Coal,	Tons. 8,562 2,926 243 2,404 10,231 37,115 1,987						

1889.]	TOLEDO,	SAGÌN.	AW &	k MU	SKEG	ON R	AILW	AY CO.	149
	•								Tons.
Plaster, lin	e and cem	ent.	_	_	_	_	_	_	462
Salt.		,	_	_					229
Petroleum,		-	-	-	-	-	•	-	7 <u>1</u>
Pig and blo	om iron	•	-	-	-	-		-	507
Other iron	and costin	- Ma	-	-	-	-	-	-	273
Ores.	and casum	50,	-	-	-	-	-	-	47
Stone, bric	k and sand	-	-	-	-	-	-	-	1,397
								-	
Manufactur								on,	2,101
Merchandia	se and otne	r article	es no	t enu	merat	ea ab	ove,	-	9,597
Total f	orwarded,	_	_	-	-	_	_		78,152
			•						•
	Tonna	ge of Ar	ticles	Trans	sported	.—En	tire Ro	ad.	
•					•		-	•	
<b>a</b> ·	•							ons.	Per Cent.
Grain, .		· -	-	-	-			562	10.96
Flour,	/3 - a -		、	-	-			926	3.74
Provisions	(beef, porl	k, lard,	●tc. ),	-	-			<b>24</b> 3	.31
Animals,			-	-	-			404	3.08
Other agric			-	• _	-			231	13.09
Lumber an	d forest pr	roducts,	-	_	_		37,	115	<b>47.49</b>
Coal, _		_ `	_	_	_		1,	987	2.54
Plaster, lin	ne and tem	ent.	_	_	_			<b>46</b> 2	.59
Salt, _		•	_	_	_			<b>22</b> 9	.29
Petroleum,			_					71	.09
Pig and blo		_	-		_			507	.65
Other iron			-	-	-			273	.35
Ores.		————————————————————————————————————	-	-	-			47	.06
Stone, bric	k and aand	-	-	-	-		1	397	1.79
			~ i	-	noint		1,	001	1.10
Manufactur		os smbl	ou I	rom l	юші		. 0	101	0.60
of produc		-4L	4.	-1			Z,	101	2.69
Merchandi		otner	artic	C168	$\mathbf{not}$			505	10.00
enumera	ted above,	-	-	-	-		9,	<b>597</b>	12.28
Total t	ons carried	l, _	-	_	_		78,	15 <b>2</b>	100.00

#### ADDITIONAL QUESTIONS.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company has exclusive right on passenger trains, carrying light freight, money, etc., taking freight to and from depots at the following rates: On through merchandise first-class rates, on local merchandise  $1\frac{1}{2}$  first-class rates, on perishable goods  $1\frac{1}{10}$  first-class rates.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 96 miles, owned by Western Union Telegraph Company.

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#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

<b>5</b> •	
Chicago, Boston & Liverpool Co., St. Albans, Vermont,	<b>\$8 00</b>
Chicago Refrigerator Car Co., LaFayette, Indiana,	10 37
Merchants' Despatch Transportation Co., New York City, N. Y.,	<b>52 28</b>
New York Despatch Line, New York City, N. Y.,	16 14
National Car Co., St. Albans, Vermont,	185 98
Parker, D. W., Kalamazoo, Michigan,	14
Total.	<b>\$272</b> 91

STATE OF MICHIGAN, COUNTY OF WAYNE,

W. J. Spicer, Vice President and General Manager, and James H. Muir, Secretary and Treasurer, of the Toledo, Saginaw & Muskegon Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed,

W. J. SPICER. JAS. H. MUIR.

Subscribed and sworn to before me this 26th day of March, A. D. 1890.

A. B. Thomas, Notary Public.

#### ANNUAL REPORT

be the

## WABASH RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed April 1, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, O. D. ASHLEY, New York,
Vice Presidents, EDGAR T. WELLES, New York.

LAMES F. HOW St. Louis Mo.

JAMES F. HOW, St. Louis, Mo. Secretary, J. C. OTTESON, New York.

Auditor, D. B. HOWARD, St. Louis, Mo. Treasurer, F. L. O'LEARY, St. Louis, Mo.

General Manager, CHAS. M. HAYS, St. Louis, Mo.

General Superintendent, H. L. MAGEE, St. Louis, Mo.

Division Superintendents, E. A. GOULD, Peru, Ind.

J. S. GOODRICH, Chicago, Ills.

F. H. McGINGAN, Kansas City, Mo.

Chief Engineer, W. S. LINCOLN, St. Louis, Mo. Superintendent of Telegraph. G. C. KINSMAN, Decatur, Ills. General Passenger Agent, F. CHANDLER, St. Louis, Mo. General Freight Agent, S. B. KNIGHT, St. Louis, Mo. Attorney, W. H. BLODGETT, St. Louis, Mo.

#### DIRECTORS.

JAMES F. JOY, Detroit, Mich.
THOS. H. HUBBARD, New York.
EDGAR F. WELLES, New York.
JOHN T. TERRY, New York.
GEORGE J. GOULD, New York.
JAMES F. HOW, St. LOUIS, MO.
CHAS. M. HAYS, St. LOUIS, MO.
HENRY K. MCHARG, New York.
RUSSELL SAGE, New York.
SIDNEY DILLON, New York.
S. C. REYNOLDS, Toledo, Ohio.
CYRUS J. LAWRENCE, New York.
O. D. ASHLEY, New York.

Terms expire September 9, 1890.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—July 31, 1889.								
Number of stockholders at date of last election,	Not reported.							
Number of stockholders in Michigan at same date,	Not reported.							
Amount of full paid stock held in Michigan at same date,	Not reported.							
Date of annual meeting of stockholders,—Second Tuesday in September each year.								
Fiscal year of company ends June 30.								
General offices of the company are located at St. Louis, Mo.								

#### GENERAL EXHIBIT.

	DEBIT.	CREDIT.
Total income, entire system,  Total expenses, including taxes,	<b>\$7</b> ,330,539 64	<b>\$</b> 10,094,875 <b>4</b> 8
Net income,		2,764,335 84
Interest on funded debt, including leased lines,		
Rentals of buildings, tracks, etc.,	297,414 83	
Sundry charges,	634,256 32	0.000.004.40
Balance for the year,	<b>\$</b> 305,728 63	3,070,064 47
Balance (profit and loss) last year,		594,202 65
Balance forward to next year,	288,474 02	
	<b>\$</b> 594,202 65	\$594,202 65
ANALYSIS OF CAPITAL	STOCK.	
Amount authorized by charter or articles of a	association,	<b>\$</b> 52,000,000 00
Par value of shares, \$100 00		
Number of shares issued, \$100 00 520,000	****	•
Amount common,	\$24,000,000 0	
Amount preferred,	28,000,000 0	U
Total amount paid in as per books of the	company,	<b>\$</b> 52,000,000 <b>00</b>
Paid in per mile of road owned by company, —1,678.50 miles,	<b>\$</b> 30,980 0	0

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.
1st mortgage bonds, North Missouri R. R Real estate and railway mortgage bonds 1st mortgage bonds, St. Charles bridge 2d mortgage bonds, St. Charles bridge	7≴ 7≴ 6% 7≴	1895 1895 1908 1908	New York New York New York New York	\$6,000,000 3,000,000 1,000,000 388,500
1st mortgage bonds, Ottumwa division 1st mortgage bonds, Boone Co. & Boonville R.R. 1st mortgage bonds, Brunswick & Chill. R. R. 1st mortgage bonds, St. L., C., B. & O. B. R.	7x 7x 8x 8x	1987 1908 1908 1908	New York New York New York New York	322,000 100,000 304,500 626,000
ist mortgage bonds, Wabash R. R. Co		1989 1989 1989	New York New York New York	22,259,000 14,000,000 30,000,000
Total funded debt				\$78,000,000
* If earned.				
UNF	UNDED	DEBT.		
Unfunded debt,	-			None.
REC	APITUI	ATION.		
Total funded debt,	-		<b>\$78,00</b>	0,000 00
Total debt liabilities,	_		\$78,000	0,000 00
Amount of debt liabilities per m	ile of r	oad,1,678.5 m	iles, 40	<b>3,47</b> 0 00
Total amount of stock and o	lebt, er	ntire system,	\$130,000	0,000 00
Stock and debt per mile of road,	1,678	8.5 miles,	_ 7'	<b>7,45</b> 0 00
GENERAL B	ALANG	CE SHEET.—Dr.		
Cost of road, equipment and app	urtena	nces,	<b>\$129,97</b> 0	0,000 00
Cash Items: Cash,	 	\$1,982,940 274,425	32	7, <b>36</b> 6 18
Other assets:  Materials and supplies, Debit balances from companion	es and		75	,,000 10
individuals,		693,206		3,599 05
Total,			<b>\$133,32</b> 6	5,965 23

#### GENERAL BALANCE SHEET.—CR.

Capital stock, Funded debt,	-	-	-	-	-	-	-	<b>\$52.000,000 78,000,000</b>	00 00
Unfunded debt: Interest unpaid,		_			<b>\$</b> 994	985	94		
Vouchers and account Other liabilities,	ıts,			-	1,455	,341 ,915	43		
•	-	-	-	-		,510		2,854,241	98
Purchasing committee Profit and loss or income	-	- Iccounta	-	-		-	-	183,249 288,474	
	шоа	ccountis,		-	-	-	-		
Total,	-	_	-	-	-	-		<b>\$133,325,965</b>	23

#### COST OF ROAD AND EQUIPMENT.

#### Purchased by Present Company.

When purchased,— July 1, 1889.	
Original cost to present company, of road and equipment,	\$129,970,000 00
Total cost to date of report,	129,970,000 00
Average cost per mile of road, not including sidings,-	
1,678.5 miles,	77,450 00
Proportion of cost for Michigan,	6,126,295 00

#### ANALYSIS OF EARNINGS.

#### Leased or Proprietary Roads.

#### PASSENGER EARNINGS.

Detroit division, composed of the Detroit, Butler & St. Louis Railroad, Eel River Railroad, Chicago & Atlantic Track:

Total passenger fares, Express and baggage,	-	-		-	_	\$433,815 16 9,673 37
Mails.		_	_	-	-	18,141 94
Other sources,	-	-	-	-	-	7,466 31
Total passenger d	os.					

Total passenge	ngs,	-	-	- <b>\$4</b> 6	9,096	78			
Proportion for Mic Per train mile, Per mile of road,		- -	- -	-	<u>-</u> -	<b>\$110,663</b> 1,399	<b>58.62</b>		

#### FREIGHT EARNINGS.

#### Leased or Proprietary Roads.

Detroit division, composed of the Detroit, Butler & St. Louis Railroad, Eel River Railroad, Chicago & Atlantic Track:

Total traffic,	_	_	_	_	_	<b>\$1,322,616</b> 74
Other sources,	-	-	-	-	-	16,270 35

Total freight department earnings, \$1,338,887 09

Proportion for Michigan Per train mile, Per mile of road,	n, . 	- <b>-</b>	<b>\$</b> 315,88	1 27 6
Total transportation	earnings,	entire syst	em, _	\$9,934,431 13
Transportation earnings Transportation earnings From other sources,			\$6,778 1 160,444	20.5
Total,				160,444 35
Total earnings from	operation	of road,		\$10,094,875 48
Total earnings per mile miles, Total earnings per train Proportion of taxable ea Total taxable earnings Michigan,	mile,	Michigan,	426,518	20.5 12
	-			
Total income from a	in sources,		-	<b>\$10,094,875 48</b>
	ANALYSIS Waintenan			
	Maintenan	ce oj way o	ւռա քաւաւուր	
Repairs of road way and Renewals of rails, Renewals of ties, Repairs of bridges, inch Repairs of fences, road of Repairs of buildings,	iding culve	rts and cat	tle guards,	\$803,789 92 111,944 80 240,346 01 142,627 42 47,426 92 193,684 00
Total,				\$1,539,819 07
Class 2	<b>M</b> aintenauce	of Motive	Power and (	
Repairs of locomotives, Repairs of passenger car Repairs of freight cars, Total,	 '8,			\$493,822 26 221,496 10 520,363 60 
•	ss 3Condu	cting Trans	portation.	- , ,
Fuel for locomotives, Water supply, Oil and waste, Locomotive service, Passenger train service, Passenger train supplies Mileage of passenger can Freight train service,	<b>,</b> .			\$524,417 96 58,013 45 65,601 78 648,900 06 164,443 34 21,706 46 61,334 13 341,063 17
Freight train supplies, Mileage of freight cars,	 		 	7,882 71 138,680 32

4	~	c
1	ภ	n

1	COURT	LANT	DATE	DOAD	RETURNS.
п	7 SC 311 SC 1	I A IN	KA III	KUJAIJ	RECEIVED RIVER

[Dec. 31,

190	MICHIGAN	KAILKU	AD KE	HUKN	Б.	f Dec	31,
Telegraph expenses	(maintenar	ce and o	peratir	ıg),	<b>.</b> -	<b>\$163,399</b>	95
Damage and loss of	rreight and	. baggage	Э,	-		11,937	04
Damages to proper	ty and cattle	), -	-	-	-	31,375	
Personal injuries, Agents and station			-	-	-	24,793	
Agents and station	service,	-		•_		1,110,401	25
Station supplies,		_	_	_		29,485	69
outlies supplies,		_	_	_	-		
Total,	<u>-</u>	-	-	-		<b>\$</b> 3,403,436	85
	CLASS 4	.—General	Expen	1 <b>8</b> 68.			
Salaries of the gen	eral officers	of the cor	nnanv			<b>\$</b> 193,335	06
Salaries of clerks in	conerel off	ices	puj	,		37,844	
	_		-	-		29,261	27
		-	-	-		26,486	
Insurance,	- 43	-		-		20,400	47
Stationery and prin	iting,	-	-	-		64,271	
Outside agencies ar	id advertisin	ı <b>g</b> , _	-	-		239,587	72
Contingencies,	, -	-	-	-		297,161	38
Taxes,	- •	-		- •		263,654	21
Total,		_	_	_		<b>\$1,151,601</b>	76
						<b>,</b> ,	
·	RECAPITU	TATION C	N RYD	TNSTS			
	112011110	IMITION C	, Bal	Pe	r Cent of expenses.		
Maintenance of way	and buildi	m.c=c			21.01	<b>\$</b> 1,539,819	07
			-			1 095 691	06
Maintenance of mo	uve power a		-	-	16.85	1,235,681	90
Conducting transpo	rtation, -				46.43	3,403,436	80
General expenses, i	ncluding tax	ces, -	-	-	15.71	1,151,601	76
Total operating	g expenses a	nd taxes,	-	-	100.00	<b>\$7,</b> 330,539	64
Operating expenses	and taxes p	er mile o	f road	, \$5	,002 07		
Operating expenses					00	07	
for trains earning Proportion of oper Michigan:	ating expens	es and ta	mnes xes fo	r	88.	ฮเ	
Ų	Leased	or Proprie	etary R	coads.			
	DE'	FROIT DIV	ision.	•			
Composed of Detro road, Eel River Track, 37913 of \$	Railroad, Cl	hicago & .	is Rai Atlant	il- ic -		<b>\$</b> 343,965	<b>83</b>
Percentage of expe Net earnings per m Net earnings per to	ile of road,	nings,—78 -	3.78%. - -	1	,776 79 31.	53	

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Detroit to Butler, 1881.

#### MAIN LINE.

In Michigan, from Detroit to Ohio State line, In Ohio, from State line to State line, In Indiana, from State line to Logansport, From Laketon Junction to Chicago, From Logansport to Clymers,	Miles. 100ths. Mi 79.10 28.50 98.90 122.80 6.00	les. 100ths.
Total length completed,	-	335.30
Total length of road belonging this company in Michigan, Aggregate length in Michigan, of sidings, spurs, and other tracks not above enumerated,	75.20 30.79	
Aggregate length of tracks in Michigan belonging to this company, computed as single track,		105.99
Gauge of track, 4 feet, 81 inches.		
Proprietary or Leased Roads Operated by this	Company.	
Name description and lands of soil.	Total Miles. In	Michigan.
Name, description, and length of each:		
Name, description, and length of each:  Detroit union depot track,	-	3.90
	335.30	_
Detroit union depot track,  Total miles operated by this company constituting		3.90
Detroit union depot track,  Total miles operated by this company constituting Detroit division,	gan.	3.90
Detroit union depot track,  Total miles operated by this company constituting Detroit division,  Number of Bridges and Trestles in Michig  Combination bridges, number of 2; Aggregate len	gan.	3.90 ——— 79.10
Detroit union depot track,  Total miles operated by this company constituting Detroit division,  Number of Bridges and Trestles in Michig  Combination bridges, number of 2; Aggregate len Wooden trestles, number of 89; Aggregate len	gan.	3.90 79.10 359 8,008
Detroit union depot track,  Total miles operated by this company constituting Detroit division,  Number of Bridges and Trestles in Michig  Combination bridges, number of 2; Aggregate len Wooden trestles, number of 89; Aggregate len Total, 91;	gan.  agth, feet, -  agth, feet, -	3.90 79.10 359 8,008 8,367

L. S. & M. S. Railroad at Delrey. F. & P. M. Railroad at Romulus. T., A. A. & N. M. Railroad at Milan. C., J. & M. Railroad at Britton. L. S. & M. S. Railroad at Raisin Center.

L. S. & M. S. Railroad at Adrian.

What railroads cross your road either over or under your grade in this State, and where?
Over,—None.
Under,—None.

At what crossings are interlocking and derailing switches in operation? None.

				_				
158	MICH	IGAN R	AILR	OAD F	RETUI	RNS.		[Dec. 31,
Number of cross	<del>.</del>	116						
Number of cross which there a Number of cross		6						
Number of cross matic signals,	ito-	None.						
Number of cross	l <b>,</b> -	None.						
Number of high Number of high	ck.	None. None.						
Have safety gua	rds been e	erected	at ove	er-head	l obst	ructio	ns,	Yes.
Are your frogs a 174, Session I	ind guard aws 1883	rails bl ?	locked	l as re	quire	d by .	Act	Yes.
How are they tr			with	plank.				
			Statio	ns.		_		
Number of static	ons on wh	ole line	,	-	-	-	-	125
Same in Michiga	an,	-	-	-	-	-	-	17
		i	Emplo	yés.				
Number persons	regularly	employ	yed o	n all	roads	opera	ted	
by company, including officials, Same in Michigan,								243
Classify your en	iployés as	per fol	lowin	g list:	·	-		Number.
Baggagemen,				-	_	~	-	3
Brakemen, Conductors,		-			-	-	-	35 18
Engineers,	_	-	-	-	-	-	-	
Firemen, Laborers,		-		-	_	-	-	104
Shopmen.		-		-	-	-	-	102
Yardmen,		-	-	-	-	-	-	29 54
Others,		-	-	-	-	-	-	34
		Fencin	ıg in l	Michiga	ın.			
How many miles	of fencir	ng have	you?	-	-	-	-	153.2
Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:								
Wayne county,		-			-	-	•	1.5
		Road	Bed ar	nd Trac	k.			
Number of track	sections	in Mich	igan.	_	_	_	_	12

# Number of track sections in Michigan, - - - - - - 6.66 Average length of sections (miles), - - - - - - - 6.66 Average number of men in each section gang, - - - - 5 Number of new ties put in track in Michigan, - - - 30,906 Average number of new ties per mile of road, - - 388.26 New rails put in track: Steel (tons 258.92) miles, 2.57. Total miles of track laid with new rails, - - - 2.57

#### ROLLING STOCK.

						Number.	Present Estimated Value.	
NT	•		, ,			Number.	esumateu value.	
Number of locomotives of weight, exclusive of ten	der,		_	-	_	367	<b>\$1,101,000 00</b>	
Number of locomotives of exclusive of tender,	t 20 t -	o 30 -	tons	weigh -	1t, -	37	111,000 00	
Total,	-	-	-	-	-	404	<b>\$1,212,000 00</b>	
Vumbar of passanger com	10	-h-al	in al-	٠.,				
Number of passenger carsing official cars,	12 W	пөөт	, шег	ıu-		83	340,150 00	
	0	- ha		.1	- ~-	00	540,150 00	
Number of passenger car	rso-	-мпе	ei, inc	JIUQII	ng	84	195 100 00	
official cars,	<u>-</u>	<b>-</b>	_	-	-	109	185,100 00	
Number of express and b		e can	rs,	-	-		215,600 00	
Number of box freight car	rs,	-	-	-	-	8,352	2,387,055 00	
Number of stock cars,	-	-	-	-	-	1,612	460,410 00	
Number of platform cars,		-	-	-	-	3,329	711,130 00	
Number of conductors' wa	ay car	8,	-	-	-	204	117,300 00	
Other cars,	-	-	-	-	-	206	67,630 00	
Total,	-	-	-	-	_	13,979	<b>\$</b> 5,696,375 00	
<b>.</b>								
Number of locomotives	equip	ped	with	pow	er			
brakes,	-	-	-	<del>.</del> .	-	276		
Number of passenger-trai	n cai	rs ec	quipp	ed wi	th			
power brakes, -	-	-		-	-	<b>4</b> 07		
Number of freight cars brakes.	equip	pped	with	pow	er			
What patterns of power breaks have you in use, and number of locomotives and cars with each? Westinghouse Air & Train Brake and American Steam Driver Brake.								
Are your freight cars being			ed wi	th au	tomat	ic coupl	ers as required	
by Act No. 147, Session	ı Law	s of	1885?	90	cars e	quipped		
What pattern or patterns	have	vou	adon	ed fo	r use i	M. C.	B. Association.	
How are your passenger	cars	hea	ted?	Bak	er hes	ter.		
are jour pubblinger								

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

#### ENTIRE SYSTEM.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	<u>-</u> -	3,306,876 4,932,361
Total mileage of trains earning revenue,	-	-	-	8,239,237

### Passenger Traffic.

•	Passer	iger 1	rajjic.			
m 4.1 1 6		,	Numbers Quanti	ties.	Miles.	Rate. Dols. Cents.
Total number of passengers c	arrie	1, _	2,174,0	JOĐ		
Total passenger mileage, or pa						
Average distance traveled by	each	passe	nger,	_	50.1	_
Average amount received from Average rate of fare per mile	\$1 11.03 02.20					
Freight Traffic.						
			Num	bers		Rate.
Total tons of freight carried,	-	-	and Qua 4,75	ntities. <b>4,79</b> 0	Miles. 1	Dollars. Cents.
Total freight mileage, or tons	carri	ed on	e mile,	-	932,181,8	5 <b>7</b>
Average ton haul for all freig	ht,	-	-	-	196.	10
Average amount received for Average rate per ton per mile				reight	 , -	\$1 42.98 00.72
Tonnage of Art	icles !	Transı	ported.—	Entire	Road.	
			,		Tons.	Per Cent.
Grain,					779,547	21.68
Flour,	-	-	•	-	91,990	02.56
Provisions (beef, pork, lard, e	atc.)	•		-	59,334	01.65
Animals,	,,	-	•	-	211,929	05.89
Other agricultural products,	-	-	-	•	132,835	03.69
Lumber and forest products,	_	-	-		303,124	08.43
Coal.	-	-	-	-	967,238	26.90
Plaster, lime and cement,	-		-		50,604	01.41
Salt,	-	_	-	_	116,494	03.24
Petroleum,	-	•		-	32,308	00.90
Railroad iron, iron and steel i	ails.		_		15,953	00.44
Pig and bloom iron,		-	-		23,844	00.66
Other iron and castings,	_	_	_	_	5,735	00.16
Ores,	_		_	_	3,539	00.10
Stone, brick and sand,	_	_	_	_	69,623	01.94
Manufactures,—articles shipp	ed fr	om po	oint of 1	produc		
tion,	_	_ •	_ ^	-	41,797	01.16
Merchandise and other article	s not	enur	$\mathbf{nerated}$	above		19.19
Total tons carried,	-	-	-	-	3,596,042	100.00

# ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies? Pacific Express Company.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 206.5 miles on Detroit Division. Western Union Telegraph Co.,

# Transportation Companies.

#### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Co., New York,	<b>\$19,683 12</b>
Woodruff Sleeping & Parlor Coach Co., Philadelphia,	371 18
Pullman Palace Car Co., Chicago, February to June,	
Railroad Co., pays Wagner Palace Car Co., three cents per i	mile run and
Woodruff two cents. Railroad Co., collects all fares. Sleepi	ing Car Co.,
collects all Sleeping Car fares.	

#### Fast Freight Lines.

To what fast freight lines or other-transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Blue Line,	_	_		_	_	_		<b>\$4,54</b> 8	04
Canada Southern Line,	_	_			-			2,230	
								307	32
Erie Despatch,								640	37
Great Eastern Line,	-		-	_			_	1,508	
Merchants' Despatch.	-	-	-	-			-	4,348	
Midland Line,	-	-	-		-	-	-	<b>349</b>	
National Despatch,	-	_	-		-			5,049	
Nickle Plate Line,		-	-		-	-	_	16	
Pittsburg & Toledo Desp	atch,		-	-	-	-	-	340	
Red Line Transit Co.,								3,878	
Union Line,	-	-		-		-	-	1,613	
White Line,	-	-		-		-		576	
Total,			_	_	_	_		\$25,407	

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

# KILLED.

August 17, Walter W. Morse, freight conductor, Seneca. While making "flying switch" was knocked from top of car and run over; his own carelessness.

November 28, Fred Dasher, citizen, Hand. Struck by an engine, on crossing and killed; gross carelessness on his part.

21

#### INJURED.

January 31, T. Gerard, section laborer, Delrey. Struck on left arm by tie, he was unloading from car; carelessness on his part.

February 9, Charles Ball, brakeman, Milan. Left arm caught between

deadwoods while coupling cars; want of caution.

August 21, John Milan, switchman, Detroit. Coupling engine to car, had right leg caught; want of caution.

September 2, James McCracken, switchman, Delrey. Brake wheel broke

while setting brake, fell from top of car; accidental.

August 31, George Nelson, switchman, Detroit. Left arm caught between deadwoods while coupling cars; purely accidental.

September 12, George Bittner, switchman, Detroit. Left hand caught

September 12, George Bittner, switchman, Detroit. Left hand caught while coupling cars; want of care and caution on his part.

September 21, Lizzie Shawley, passenger, Munson. Attempted to board

moving train and fell; careless.

November 19, F. Brauer, switchman Delrey. Caught and squeezed between cars while coupling same; accidental.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.	1	Killed.		Injured.			
( Masos VI 180 McInt	Passengers.	Passengers. Employés. Others.		Passengers.	Employés.	Others	
ollisions							
oupling cars					5		
erailments		1			1		
rogs			<b></b>				
etting on and off trains				1			
iscellaneous							
verhead obstructions					,		
espassers on tracks							
<del>_</del>							
Total		1	1	1 1	7		

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,						2
Number of persons injured during the year,	-		·	-	-	8
Number of casualties purely accidental,	_	-	_	_	_	4
Number resulting from lack of caution, careles	snes	s, or	$\mathbf{misc}$	ondu	ıct,	6
Persons killed or injured while intoxicated,	-	-	-	-	-	_
Trespassers and tramps killed or injured,	-	-	-	-	-	_
Suicides (attempted),	-	_	_	-	-	

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen. Reakemen			
Conductors. Engineers	1		i
Firemen Laborers Rhopmen		1	i
Yardmen Not classified above	!	5	5
Total	1	7	8

STATE OF MISSOURI, SS. CITY OF ST. LOUIS,

James F. How, Vice President of the Wabash Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper offcers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] JAMES F. HOW, Vice President.
Subscribed and sworn to before me this 28th day of March, A. D. 1890.
B. C. Winston, Notary Public.

#### ANNUAL REPORT

OF THE

# PONTIAC, OXFORD & NORTHERN RAILROAD COMPANY,.

For the Year Ending December 31, 1889.

[Filed March 28, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, GEO. W. DEBEVOISE, New York City. Vice President and Treasurer, HUGH PORTER, New York City. Secretary, WM. H. MURPHY, New York City. Auditor, W. C. SANFORD, Pontiac, Mich. Asst. Secretary and Asst. Treasurer, FRANK H. CARROLL, Pontisc, Mich. General Superintendent, JAMES HOUSTON, Pontiac, Mich. Chief Engineer, GEO. A. NETTLETON, Pontiac, Mich. General Passenger and Freight Agent, JAMES HOUSTON, Pontiac, Mich. Attorney, A. C. BALDWIN, Pontiac, Mich.

#### DIRECTORS.

GEO. W. DEBEVOISE, New York City. CHARLES H. STONE, New York City. HUGH PORTER, New York City. WM. H. MURPHY, New York City. A. C. BALDWIN, Pontiac, Mich. JAMES HOUSTON, Pontiac, Mich. FRANK H. CARROLI, Pontiac, Mich.

Terms expire September 24, 1890.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—September 24, 1889	<del>)</del> .	
Number of stockholders at date of last election,		- 8
Number of stockholders in Michigan at same date,		- 3
Amount of full paid stock held in Michigan at same date,		- \$3,000
Date of annual meeting of stockholders,—First Wednesday after the	e third	Monday in
September.		-
Fiscal year of company ends—December 31.		

General offices of the company are located at Pontiac, Mich.

# REMARKS.

The Pontiac, Oxford & Port Austin Railroad was operated by the Farmers' Loan & Trust Company, of New York, trustee for the bond holders, from February 28, 1888, to September 19, 1889, and on that date was transferred, as per conditions of sale made June 5, 1889, to Hugh Porter and others, purchasing committee, representing the bond holders. On September 24, 1889, the railroad, and all property belonging thereto, was transferred by Hugh Porter and others to the Pontiac, Oxford & Northern Railroad Company. This report includes the operations of both companies during the year 1889.

# GENERAL EXHIBIT.

	DEBIT.	CREDIT.
Total income, Total expenses, including taxes,	<b>\$91</b> ,831 66	<b>\$</b> 102,068 <b>2</b> 7
Net income,		<b>\$10,236</b> 61
Balance for the year,		<b>\$10,236</b> 61
Balance forward to next year,	. \$10,236 61	
•	\$10,236 61	<b>\$10,236 61</b>
Analysis of Capital  Amount authorized by charter or articles of Par value of shares, \$100  No. of shares isued, 10,000  Amount paid in on common,  Total amount paid in, as per books of the company paid in per mile of road owned by company, —100 miles,	f association,	\$1,000,000 00 \$1,000,000 00
ANALYSIS OF DEBT A	ACCOUNTS.	
FUNDED DEB	г.	
Funded debt,		_ None.

# UNFUNDED DEBT.

For what Incurred,	Is the	Same to	be Fund	ed, or 1	How Liquid	ated.	Amount,
For construction							
For real estate							
For miscellaneous For current balances			· · · · · · · · · · · · · · · · · · ·		· • • • • • • • • • • • • • • • • • • •		\$9,381 27
'					<del></del>		
Total unfunded debt			· · · · · · · · · · · · · · · · · · ·				\$9,\$81 27
	DECA	PITUL.	A TION				
	RECA	PII UL.	ATION	•			
Total unfunded debt,	-		-	-	-	-	<b>\$9,381 27</b>
Total debt liabilities, Amount of debt liabilitie	s per m	ile of	- f roac	d,—]	100 mi	les,	\$9,381 27 93 81
Total amount of stock and Total stock and debt per	debt, mile of	road,-	- <b>100</b>	mile	- 98,	-	\$1,009,381 27 10,093 81
GENE	RAL BA	LANC	E SH	EET.	—Dr.		
Construction account, Equipment account,	•	-	-	- ,-	<u>-</u> -	<u>-</u>	\$883,683 05 110,500 00
Cash items: Cash, Bills receivable, Due from agents,	- - -	- -	<u>-</u> -	•	\$14,473 1,248 622	85	<b>\$</b> 16,344 75
Other assets:  Materials and supplies, Debit balances from cor	- mnenies	ond is	-		<b>\$</b> 7,330	49	\$10,011 TO
dividuals,	- npanies	-	- -		1,759	59	<b>\$</b> 9,090 08
Total,	-	-	-	-	-	-	<b>\$1,019,617</b> 88
• GENE	RAL BA	LANC	E SH	EET	.—Сп.		
Capital stock,	-	-	-	-	-	-	\$1,000,000 00
Unfunded debt: Vouchers and accounts, Profit and loss or income	- accounts	- 5,	- -	- -	-	_	9,381 <b>27</b> 10,236 61
Total,	• -	-	-	_	-	-	<b>\$1,019,617</b> 88

# COST OF ROAD AND EQUIPMENT.

# Purchased by present company.

•	Pu	rchasea	t by pr	esent co	mpany.			
When purchased.	Sept	tember	24, 1	889.				
Original cost to pre	sent co	mpan	y, of	coad ar	nd equipme	nt,	\$1,000,000	00
Total cost to de	ate of r	eport,	-	-		-	<b>\$1,000,000</b>	00
Average cost per 100 miles, Proportion of cost i					-		10,000 1,000,000	
CHARGES AN	D CRE	EDITS	то рі	ROPERI	Y DURING	тн	E YEAR.	
		:	MAIN I	LINE.				
Right of way, New buildings,	 	-	-	-		-	\$150 920	
Total,	- ,-	_	_	_		-	\$1,070	82
Total charges to prove Net addition to pro	operty perty a	accoun	nt as a t,	bove,	\$1,070 1,070	82 82		
	Al	NALYS	IS OF	EARN	INGS.			,
		PASSE	NGER	EARNIN	G8.			
Main line: Local fares, Through fares,	-	-	-	- -	\$36,492 1,022	70 36		
Total passenge	r fares	, .		_	<b>\$</b> 37,515	06	:	
Express and bagg	gage,			-	2,480 5,780	48 12	•	
Total passenge	r depa	rtment	earni	ngs,			<b>\$4</b> 5,775	66
Proportion for M Per train mile, Per mile of road,			 		\$45,775 457	50		
		FREI	ент н	EARNING	łs.			
Main line: Local traffic, Through traffic,	-		- -	-	\$52,583 3,641			
Total traffic,	-	_	-	-	\$56,224	61		
Total freight d	epartn	nent es	rning				<b>\$</b> 56,224	61

Proportion for Per train mile, Per mile of ros	_	in, _	- - -	- - -		24 61 1 14 62 25		
Total transp	ortation	earnings	<b>,</b>	-		-	\$102,000	27
Transportation e Transportation From other source	earnings	per tr	ain n	oad, nile,	\$1,02	20 00 72.19		00
Total earning	gs from	operation	of re	oad,		-	<b>\$102,068</b>	27
Total earnings protal earnings pe			d, _	-	\$1,0	20 '68 <b>72</b> .24	4	
Proportion of tax	able earn	ings for	Michi	gan,		-	\$102,068	27
Total taxable ear Michigan,	nings pe	r mile o	of roa	d in	1,09	20 68		
Total income	from al	l sources	3,	-			<b>\$102,06</b> 8	<b>27</b>
Proportion of inc	ome for	Michiga	n,	-		-	102,068	27
		ANALYSI				in an		
,	CLASS I	<b>m</b> aintena	ince oj	way c	ind Build	ings.		
Repairs of road v Renewals of rails Renewal of ties, Repairs of bridge Repairs of fences Repairs of buildi	es, includ s, road cr	ling culv	- erts a	ind ca	ttle guar	ds,	\$21,213 16 12,262 1,059 1,578 1,825	04 98 55 82
-	0,							
Total,	-		-	-		-	<b>\$</b> 37,956	05
C	LASS 2.—M	<b>lainte</b> nan	ce of 1	Motive .	Power and	d Cars.		
Repairs of locom Repairs of passer Repairs of freigh	iger cars	- 5, -	-	-	 -	- -	\$5,095 2,889 2,043	94
Total,		. <u>-</u>	-	-		-	\$10,029	51
	CLASS	3Cond	luctina	Trans	portation			
Til. 1 f 1			·	•	•		<b>47 09</b> 6	07
Fuel for locomotive Water supply,	ives,		-	-		-	<b>\$7,936</b> 816	
Oil and waste,	-	- •	-	-	-			
Locomotive servi			-	-	-		020	79
	_		-	-	-	 	6,015	79 28
Passenger train s	ce, ervice,	·	-	- - -	- - -	 	6,015 2,650	79 28 12
Passenger train s Passenger train s Freight train ser	ce, ervice, upplies,	·	-	- - -	- - -	 	6,015	79 28 12 24

1889.] PONTIAC, OXFORD & NORTHERN	N RAILROAD CO	D. 169
•		
Freight train supplies,		<b>\$</b> 95 66
Mileage of freight cars.		324 33
Telegraph expenses (maintenance and operati	ng),	2,127 36
Damage and loss of freight and baggage,	5,,	64 05
Damage to property and cattle,		545 56
Personal injuries,		17 50
Agents and station service,		5,633 81
Station supplies,		535 27
Occion supplies,		000 AI
Total,	• -	\$30,667 55
Class 4.—General Expe	nses.	
Salaries of the general officers of the company		\$5,775 00
Salaries of the general offices, Salaries of clerks in general offices,	·	1,680 20
		1,000 20
Law expenses,		1,590 13
Stationery and printing,		1,134 77
Outside agencies and advertising,		121 75
Contingencies,		835 85
Taxes,		2,040 85
Total,		<b>\$</b> 13,178 <b>5</b> 5
RECAPITULATION OF EXP	ENSES.	
	Per Cent of Expenses.	
Maintenance of way and buildings,	41.33	<b>\$</b> 37,956 05
Maintenance of motive power and cars,	10.92	10,029 51
Conducting transportation,	33.40 ·	30,667 55
General expenses, including taxes,	14.35	13,178 55
General expenses, including taxes,	14.00	10,110 00
Total operating expenses, and taxes,	100.00	<b>\$</b> 91,831 66
Operating expenses and taxes per mile of		
road,	<b>\$</b> 918 32	
Operating expenses and taxes per train mile	<b>4</b> 025 52	
run, for trains earning revenue,—141,285	GE.	
miles,	65	
Proportion of operating expenses and taxes for Michigan, main line,	<b>\$91,831</b> 66	
-		
Total proportion of expenses for Michigan,		<b>\$</b> 91,831 66
Percentage of expenses to earnings, 89.96.		•
Net earnings per mile of road,	<b>\$102 37</b>	
Net earnings per train mile,	07.25	
•		

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Pontiac, Michigan, to Caseville, Michigan, October 8, 1883.

# MAIN LINE.

MAIN LINE.		
In Michigan, from Pontiac to Caseville,	Miles. 100ths. 100.20	Miles. 100ths.
Total length completed,		100.20
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated, Aggregate length of tracks in Michigan belonging to	100.20 6.80	100.20
this company computed as single track, Gauge of track, 4 feet 8½ inches.	- Fotal Miles.	107 In Michigan.
Total miles operated by the company,	100.20	100.20
Number of Bridges and Trestles in Michiga	an.	
Wooden bridges, number of 3; Aggregate length Wooden trestles, number of 18; Aggregate length		210 1,510
Total,		1,720
Crossings—Railroad and Highway.		
What railroads cross your road at grade in this State, a Michigan Central Railroad at Oxford. Flint & Pere Marquette Railroad at Clifford. Saginaw, Tuscola & Huron Railroad at Berne Junct What railroads cross your road either over or under State, and where? Over,—Chicago & Grand Trunk at Imlay City. Under,—None. At what crossings are interlocking and derailing switch	ion. r your gr	ade in this
None. Number of crossings of highways at grade in this State Number of crossings of highways at grade in this S which there are gates or flagmen, Number of crossings at which there are electric or aut signals, Number of crossings of highways over or under railroad 1; under 0.), Number of highway bridges 18 feet above track, Have safety guards been erected at over-head obstructi Are your frogs and guard rails blocked as required by 1883? Yes. How are they treated? With plank blocking.  Stations.	omatic	None. None. 1 1 Yes. ession laws
Number of stations on whole line, Same in Michigan,	 	22 22

		E	mploye	is.			
Number of per by company, Same in Michi	including	arly empl	loyed o	on all re		perated	109
Same in Michi	igan,		-	-	-		109
Classify your e	employés s	s per foll	owing	list:			N L
Baggagemen	la .				_		Number. $2$
Brakemen,			_	-	-	` -	4
Conductors,					_		3
Engineers,				-			3
Firemen,				-			3
Laborers,	•-			-	-	-	51 16
Shopmen, Others,					-		27
Oulcis,	-	-	-	-	•		. 21
		REPAIRS	AND R	ENEWAL	s.		
		Fencing	j in M	ichigan.			
How many mil Give the numb	er of mile	s required	i to d	complete	e <b>fen</b> e	e both	189.8
sides of your needed.	•	Michigan	, and	the cou	ities i	n which	
Tuscola county			-	-			4.5
Huron county,		-	-	-		-	5.7
Total miles rec	quired,		-	-	-		10.2
	•	Road I	Bed and	l Track.			
Number of tra	ck section	s in Mich	igan.	_	-		16
Average length	of section	ns (miles	), _	-	_		6.26
A verse numb	ar of man	in each e	action	CONC	_		3
Number of nev	v ties put :	in whole l	line dr	iring th	e year	r, _	63,297
Number of nev	v ties put	m track i	n Muici	nigan,	-		63,297 631.76
Average numb New rails pu Steel (.05 tons	ıt in track	:	ine or	road,	•		001.70
		ROLL	inu s	TOCK.			
						Number.	Present Estimated Value.
Number of loweight, exclu		7				3	<b>\$18,000 00</b>
Number of loc	omotives of	of 20 to 30	tons	weight	,		•
exclusive of	tender,		-	-		2	16,000 00
Total,	-		-			.5	\$34,000 00
Number of pa	assenger c	ars8 wl	neel, ii	ncluding	5		
official cars,			-			7	\$31,500 00
Number of exp Number of box			ars,	-		$\begin{array}{c} 1 \\ 46 \end{array}$	2,500 00 18,400 00

	,,
Number of stock cars,	4 \$1,500 00
	\$1,350 00 \$1 21,350 00
Number of conductors' way cars,	1 450 00
Other cars as follows: Snow plow,	1 800 00
Other cars as removes. Show provi	
Total,	\$110,500 00
Number of locomotives equipped with	
nower hydros	}
Number of passenger-train cars equipped	
with power brakes,	}
Number of freight cars equipped with power brakes,—No	ne.
What patterns of power breaks have you in use, and numb	er of locomotives
and cars with each? Westinghouse. Locomotives—3; c	ars-8.
Are your freight cars being equipped with automatic cou	plers as required
by Act. No. 147, Session Laws of 1885? Yes.	
What pattern or patterns have you adopted for use	? Blocker.
How are your passenger cars heated? Hot water cir	culation. Mason
Anti-Fire Car Heater.	
MILEAGE, TRAFFIC, ETC.	
Train Mileage.	
Miles run by passenger trains during the year,	64,548
Miles run by freight trains during the year,	31,287
Miles run by mixed trains,	<b>45,45</b> 0
Total mileage of trains earning revenue,	141,285
	,
Passenger Traffic.	
Numbers and Quantities.	Rate. Kiles. Dollars. Cents.
Number of through passengers carried, 740	unes. Lonars. Cents.
Number of local passengers carried, 73,622	
' 10,022	
Total number of passengers carried, 74,362	
m.4-1	EUE 000
Total passenger mileage, or passengers carried one mile, Average distance traveled by each passenger,	.,505,336 <b>2</b> 0.2
Average enjoyed received from each person as-	<b>e</b> 0 50 45
Average amount received from each passenger,	\$0 50.45 01.38
Average rate of fare per mile for through passengers, Average rate of fare per mile for local passengers,	02.55
Average rate of fare per mile for all passengers,  L	02.49
wastered trans of rate her mine for an hassenders'	02.43

# Freight Traffic.

Number of tons of through freight carried Number of tons of local freight carried,	Numbers and Quantities. , 2,902 52,510	Miles.	Rate. Dollars. Cents.
Total tons of freight carried,	55,412		

M.4.1 1	. 1.	,						Rate. llars. Cents.
Total mileage of through from Total mileage of local freig	reigni ht,	<b>Б</b> ,	-	-	-		90,200 35,882	
Total freight mileage,	or tor	is cai	ried	one n	nile,	2,3	26,082	
Average ton haul for throu Average ton haul for local	freigh	it,		-	-	÷ -	100 38.8	
Average ton haul for all from Average amount received for	eignt, or eac	h tor	- 1 hat	ıl,	-	-	. <b>42</b>	1 01
Average rate per ton per m Average rate per ton per m Average rate per ton per m	ile, ro ile, ro	eceive eceive	ed fo ed fo	r thro r loca	l frei	ght,	i <b>t,</b> - -	$01.25 \\ 02.58 \\ 02.42$
Freight 1	Forwa	rded a	ıt Mi	chigan	Stati	ons.		W
								Forwarded Tons,
Grain,	-	• -	-	-	-	-	-	9,531
Flour, Animals,	-	-	-	-	-	-	-	2,187
Other agricultural product	-	-	-	-	-	-	-	3,319 5,376
Other agricultural product Lumber and forest product		-	-	-	-	-	-	20,793
01		-	_	-		-	-	3,021
Plaster, lime and cement,	•	-	_	-	_	-		288
Salt,	-		_	-	-	-	-	1,476
Petroleum,	_			_	_	_		243
Stone, brick and sand,	-	_		-	_	• _	_	84
Manufactures,—articles shi	pped	from	poir	at of p	produ	ction,	-	228
Merchandise and other arti	icles 1	ot er	nūme	erated	abov	е, _	-	8,866
Total forwarded,	-	-	-	-	-		-	55,412
Tonnage of	Articl	es Tra	nspo	rted.—	-Entir	e Road		
							Tons.	Per Cent.
Grain,	-		-	-	-	-	9,531	17.20
Flour,	-		-	-	-	-	2,187	3.95
Animals,	-			-	-	-	3,319	5.99
Other agricultural product	В,				-	-	5,376	9.70
Lumber and forest product	<b>68,</b> .	-	•		-	-	20,793	37.53 5.45
Coal,	-		-			-	3,021	5.45 .52
Plaster, lime and cement,			•	-		-	288 1.476	
Salt, Petroleum,	-		-	-		-	243	.44
Stone, brick and sand,	-		-	-	-	-	84	.15
Manufactures,—articles shi	bear	from	poir	nt of	produ	.c-	(73E	.10
tion.	rrow		. F			_	228	.41
Merchandise and other arti	cles r	ot er	ıume	rated	abov	e,	8,866	16.00
Total tons carried,	-		-	_	-	-	55,412	100.00

# ADDITIONAL QUESTIONS.

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company, one and one-half, and one and one-tenth first-class freight rates, and half fare for messengers. Do a general express business. Take their freights at depots.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 100 miles, owned jointly by this company and Western Union Telegraph Company.

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

# KILLED. Killed, . . . . . . None. INJURED.

November 25, Joseph Baker, brakeman, Pontiac. Coupling; from lack of caution.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Cause of Accident,		Killed,		Injured,					
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.			
Collisions				-	<u></u>				
Coupling cars				!	1				
Falling from trains. Frogs.	. i	1		1	ı .				
Getting on and off trains Highway crossings. Miscellaneous.									
Overhead obstructions						<b></b>			
Trespassers on tracks									
Total					1				
	<u> </u>	<u>i</u>			' <u> </u>				

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	
Number of persons injured during the year,	1
Number of casualties purely accidental,	
Number resulting from lack of caution, carelessness, or	
misconduct,	1
Persons killed or injured while intoxicated,	
Trespassers and tramps killed or injured,	
Suicides.	

#### CLASSIFICATION OF EMPLOYES.

# KILLED OR INJURED IN MICHIGAN.

•		Killed,	Injured,	Total.
laggagemen				
Brakemen			1	
Ingineers	I .			
aborers. hopmen				
ardmen		. <b></b>		
Total			1	İ

STATE OF MICHIGAN, COUNTY OF OAKLAND, Ss.

James Houston, General Superintendent, and W. C. Sanford, Auditor, of the Pontiac, Oxford & Northern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JAMES HOUSTON. W. C. SANFORD.

Subscribed and sworn to before me this 1st day of April, A. D. 1890. Frank H. Carroll, Notary Public.

# ANNUAL REPORT

#### OF THE

# DETROIT, BAY CITY & ALPENA RAILROAD COMPANY,

For the Year Ending Dececember 31, 1889.

[Filed April 3, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and General Manager, R. A. ALGER, Detroit, Mich. Vice President and Treasurer, M. S. SMITH. Detroit, Mich. Secretary, T. H. NEWBERRY, Detroit, Mich. Auditor, J. C. McCAUL, Detroit, Mich. General Superintendent, MILO EASTMAN, East Tawas, Mich. General Freight Agent, J. C. McCAUL, Detroit, Mich. Attorney, A. M. HENRY, Detroit, Mich.

# DIRECTORS.

R. A. ALGER, Detroit, Mich.
M. S. SMITH, Detroit, Mich.
JAMES McMILLAN, Detroit, Mich.
HUGH McMILLAN, Detroit, Mich.
J. H. NEWBERRY, Detroit, Mich.
J. C. McCAUL, Detroit, Mich.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Feb.	. 13,	1880.	Am	ende	d Ar	ticles A	pri
21, 1883.							
Number of stockholders at date of last election,	-	-	-	-	-	-	9
Number of stockholders in Michigan at same date,	-	-	-	-	-	-	8
Amount of full paid stock held in Michigan at same	date,	-	-	-	8	1,670,000	00
Date of annual meeting of stockholders,-Third Tue	sday	in N	Iay.				
Fiscal year of company ends, December 31.	_		-				
General offices of the company are located at Detroit	. Mi	ch.					

# GENERAL EXHIBIT.

				DE	BIT.	Cru	DIT.
Total income, Total expenses, including taxes,	-	-	-	\$290,791	37	<b>\$4</b> 87,209	43
Net income,	_	-	-	-	-	<b>\$196,418</b>	06
Interest on funded debt, _	<b>\$1</b> 50	,000	00				
Balance applicable to dividends,	-	-	•	-		46,418	06
Balance for the year, Balance (profit and loss) last year, Balance forward to next year,	-	- -	-	<b>\$7</b> 5,686	07	<b>\$46,418 29,268</b>	
			-	<b>\$7</b> 5,686	07	<b>\$7</b> 5,686	07
ANALYSIS OF	CAP	TAI	ST	OCK.			
Amount authorized by charter or a Par value of shares, Number of shares issued, Amount paid in on common,	\$100 16,7	00 700		ciation, 670,000 0		\$2,000,000	00

# ANALYSIS OF DEBT ACCOUNTS.

Total amount paid in, as per books of the company, Paid in per mile of road owned by company,—209.32 miles, \$7,

**\$7,978 21** 

\$1,670,000 00

#### FUNDED DEBT.

Class, Character and Date of Issue.		Rate of Interest.	When Due.	Where Payable	Amount.
First mortgage, January 1, 1883	6%	January 1, 1918	New York	\$2,500,000 00	
Total funded debt					\$2,500,000 00
	U	NFUNDED	DEBT.		
For What Incurred.	Is	the Same to	be Funded or How Li	quidated.	Amount.
For Construction. For Equipment For Real Estate				<b></b>	
		••••••••			
Total Unfunded Debt.					\$48 919 98

# RECAPITULATION.

		А	ECAF:	II ULA.	LION	•		
Total funded d Total unfunded		-	-	-	-			\$2,500,000 00 43,919 98
Total debt	liabilities	,	-	-	-			<b>\$</b> 2,543,919 98
Amount of del	bt liabilitie	s per	mile	of ro	ad,-	– <b>209.32</b> mil	es,	11,943 53
Total amo	unt of stoc	k and	l debt	t,	-		-	<b>\$4</b> ,213,919 98
Stock and debt	t per mile	of roa	d,—2	09.32	mile	98,	-	19,921 74
	GEN	ERAL	BAL	ANCE	SH	EET.—Dr.		
Construction a Equipment acc		-	-	-		\$3,829,173 413,401		<b>\$4</b> ,242,574 4C
Cash items: Cash, Bills receiva Due from ag		-	-	-		\$4,421 6,921 6,297	<b>59</b>	
Other assets:  Materials an Debit balance individuals	ces from c	ompa	nies	and	-	<b>\$14,008</b> 15,381		17,640 95 29,390 64
Total,		-	-	-				<b>\$4</b> ,289,606 05
	GEN	ERAL	BAL	ANCE	SH	EETCr.		•
Capital stock, Funded debt,	- -		-	-	-	<b>\$1,670,000 2,500,000</b>		<b>\$4</b> ,170,000 00
Unfunded debt Notes payab Vouchers and	ما	,	-	-	-	\$30,314 13,605		
Profit and loss	or income	acco	unts,	-	-			43,919 98 75,686 07
Total,		-	-	-	-			<b>\$4</b> ,289,606 05
	COST	of R	CAO	AND	EQU	IPMENT.		
Total Cost for Co	nstruction a	nd Eq	uipme	ent of 1	Road	l, and Branch	es B1	uilt by Compa <b>ny</b> .
Total expended	for constr	ructio	n and	l equi	pme	nt,	69	<b>\$</b> 4,242,574 46
Average cost permiles, Proportion of o		_	-	- - -	- ឧ ឧក	gs,200 	.00 - -	20,834 72 4,242,574 46

# Purchased by Present Company.

Pi	urcho	used by	Pres	ent Co	трапу	۱.			
When purchased,—July	11, 1	882.							
Original cost to present c Amount expended since p Amount expended since p Total cost to date of repo	ourc purc	hase,	accor	${f int}$ of	const	ructio	n,	\$107,664 3,721,508 413,401 4,242,574	73 31
Average cost per mile	of	road	not	inclu	ding	sidin	gs,	•	
-203.63 miles, Proportion of cost for Mi				- -	-	-	- -	20,834 4,242,574	
CHARGES AND CR	EDI	TS TO	PRO	)PER	ry du	RING	THE	YEAR.	
Main line:									
Extensions and new sidir New buildings,	ngs,	-	-		-	-		\$32,798 229	
Total charges,	-	-	-	-	-		-	\$33,028	39
Total charges to property	aco	count	as ab	юve,	-		-	33,028	39
Net addition to prop	erty	accou	ınt,	-	-	-	-	\$33,028	39
A	NAI	LYSIS	OF	EARN	NINGS	•			
	PA	SSENG	ER E	ARNIN	IGS.				
Main line:									
Local fares,	-	-		-	<b>\$</b> 8	8,725	80		
Total passenger fares	3,	-	-	-		8,725			
Express and baggage,		_	_	_		1,908 1,168	<b>49</b>		
Mails,	-	-	-		1	1,168	13		
Other sources,	-	-	-	-		6,574 ———			
Total passenger depa	rtm	ent ea	rnin	gs,	-	-	-	<b>\$</b> 108,376	57
Proportion for Michiga	an,	-	_		<b>\$1</b> 0	8,376	<b>57</b>	•	
Per train mile.		-	-	-		_	64		
Per mile of road,	-	-	-	-		532	22		
	F	REIGH	T EA	RNING	38.				
Main line: Local traffic,		=	-	-	<b>\$</b> 37	6,729	19		
Total traffic,	-	-	-	-	<b>\$</b> 37	6,729	19		
Total freight departs	nent	t earn:	ings,	-	-			376,729	19
Proportion for Michiga	n,	_	_	-	\$37	6,729			
Per train mile, Per mile of road,		-	-	-		1,850	99 07		
rei mile of rosu,	-	-	-	-		1,000	U1		
Total transportation	earı	nings,		-	-	-		<b>\$4</b> 85, <b>1</b> 05	<b>76</b>

100	MICHIGA	102	TIME	OAD I	uisi C.	rm412.		[Dec.	31,
Transportation es Transportation es From other source	arnings per t	rain 1	mile,	ad, - -		2,382 -	29 88	<b>\$</b> 2,103	67
Total earning	gs from oper	ation	of r	oad,	-	-	-	<b>\$</b> 487,209	43
Total earnings per Total earnings per Proportion of tax	er train mile,	· -	_	igan	- 4	2,392	62 89	487,209	43
Total taxable ear Michigan,		ile o	f ros	d in		2,392		101,200	
Total income	from all sou	ırces,		-	-	-	-	\$487,209	43
Proportion of inc	come for Mic	higa	n,	-	-	-	-	487,209	<b>4</b> 3
	ANAL	ysis	OF :	EXPEN	ISES.				
•	Class 1.— <i>Mai</i>	ntenai	nce of	Way o	and B	uildin	gs.		
Repairs of road	way and trac	k,	_	-	_	-	-	<b>\$4</b> 5,688	
Renewals of rails	and ties,		-	<u>.</u>	-		-	3,159	55
Repairs of bridge	es, including	culve	erts a	ind cat	tle g	uards,	-	1,614	
Repairs of fences	, road crossi	ngs a	nd si	gns,	-	-	-	61	
Repairs of buildi	ings, _	-	-	-	-	-	-	1,272	50
Total,							-	<b>\$</b> 51,795	87
20001,		-	-	-	-	-	-	401,100	•
CL	ASS 2.—Mainte	enance	of A	Motive 1	Power	and C	ars.		
Danaina of lacom	_ <b>i</b>							<b>39 07</b> 0	16
Repairs of locom	Ouves, .	-	-	-	-	-	-	<b>\$</b> 3,272 2,796	10
Repairs of passer	iger cars,	-	-	-	-	-	-	2,790 9,217	50
Repairs of freigh	it cars,	-	-	-	-	-	-	9,217	99
Total,		-	-	-	-	-	-	<b>\$15,286</b>	29
	Class 3.—	Condu	icting	Trans	sporta	tion.			
Fuel for locomot	ives							\$55,605	15
Water supply,	1105,	-	-	-	-	-	-	3,133	
Oil and waste.		-	-	-	-	-	-	2,240	23
Oil and waste, Locomotive servi	ice.	-	-	_	-	-	-	56,350	
Train service,	.00,	-	-	-	-	-	_	36,974	35
Train supplies,		-	_	-	_	-	-	919	
Mileage of passes			-	-	-	-	Ī	3,416	
Mileage of freigh	it cars.	_			-	-	-	4,795	64
Telephone expen	ses (mainten	ance	and d	operati	ing).		_	2,344	
Damage and loss	of freight a	nd be	1998	ze.		_	)	•	
Damages to prop	erty and cat	tle.	-00-	, , -	-	_	_ {	2,442	13
Personal injuries			_	_	_	_		1,738	80
Agents and static	on service.	_	_		_		_	16,422	
Station supplies,		-	_	_	_	_	-	<b>798</b>	
Loading and unle	oading logs,		-	-	-	-	-	1,176	95
Total,		-	-	-	-	-	-	<b>\$1</b> 88,358	68

# CLASS 4.—General Expenses.

Salaries of the Salaries of clo	e gen erks i	eral o n gen	fficer eral c	s of the	e con	pany	, -	-	-	\$10,000 6,771	
Law expenses	3,	-	_	_	_	_	_	_	_	2,506	17
Insurance,	_	_	_	-	_	-	_		_	677	65
Stationery an	d pri	nting,		_	_	_	_	-	_	1,558	42
Contingencie	8,	-	_	-	-	_	_	_	-	4,433	
Taxes,	-	-	-	-	-	-	-	-	-	9,402	
Total,	_	-	-	-	-	-	-	-	-	\$35,350	53

# RECAPITULATION OF EXPENSES.

•		Per cent of Expenses.		
Maintenance of way and buildings,	_	17.81	<b>\$51,795</b> 87	7
Maintenance of motive power and cars,	_	5.26	15,286 29	9
Conducting transportation,	_	64.77	188,358 68	3
General expenses, including taxes,	-	12.16	35,350 53	3
Total operating expenses and taxes,	-	100.00	\$290,791 37	7
Operating expenses and taxes per mile of road	ıd, <b>\$</b> 1	1, <b>42</b> 8 04		
Operating expenses and taxes per train mil run, for trains earning revenue,—548,328 mile	ile	53		
Proportion of operating expenses and taxes to Michigan:	or			
Main line,	290	),791 37		
Total proportion of expenses for Michigan,	-		<b>\$290,791</b> 37	7
Percentage of expenses to earnings,—59.91. Net earnings per mile of road, Net earnings per train mile,	_ :	<b>\$964</b> 58 36		

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Alger to Alpena, September 20, 1886.

# MAIN LINE.

In Michigan, from Alger to Alpena,	-	-	-	Miles. 100ths. Miles. 100ths. 105.00
Total length completed,	-	-	-	_ 105.00
BRAN	CHES.			
Loon Lake branch, from Emery Jun Mud Lake branch, from Mud Lake J	ction to I	Potts to Mu	ıđ	26.39
Lake, Others, Total length of branches owned by c	- -	-	-	18.44 59,49 104.32

Total length igan, - Total length		_	_	_		_	Iich-	. 100ths. 04.32	209.32
Total length in Michiga Aggregate le and other Aggregate le to this con	on, ength in tracks not ength of t	Michi above racks i	gan of enun n Mic	f sid nerat chiga	lings, ed, n belo	spu ongir	rs, -	209.32 23.66	232.98
Gauge of tre	ck, 4 feet	8½ inc	hes.						
Total miles	operated 1	by the	comp	any,	-	-	PTotal 1 20	files. 9.32	In Michigan. 209.32
	· Num	ber of 1	Bridge	s and	Trestle	es in	Michigo	an.	
Wooden bridges Iron bridges Combination Wooden tres	, number bridges,	of, numb	er of,	2; a 2; a	aggre aggre	gate gate	length length length length	, feet, , feet,	139,400 43,600 143,700 215,800
Total,		_		26;	-				542,500
	•	Crossin	gs—Ro	iilroa	d and	High	way.		
What railros None. What railros State and Number of o Are your fro 174, Sessio	ads cross where? crossings gs and gu	your None. of high ard ra	road ways	eith	ner ov rade i	er or	r under s State	r your g	•
			.5	Statio	ns.				
Number of s Same in Mic		whole	-	-	- -	-	-	-	31 31
Number of	nergong	recal		mplo;		on	all re	oda oda	
operated by Same in Mic	y compan	y, incl	uding	offic	ials,	-		-	350
Classify your employés as per following list:									350
	our emplo	yés as		- ollow		st:	-	-	
Baggagemen Brakemen, Conductors, Engineers, Firemen,	our emplo	yés as - - - - -				st: - - -	-	- - - -	350 2 50 25 25 25

None.

#### REPAIRS AND RENEWALS.

# Fancing in Michigan

Fencing in Michigan.	
How many miles of fencing have you?	30
Road Bed and Track.	
Number of track sections in Michigan, Average length of sections,—miles, Average number of men in each section gang, Number of new ties put in whole line during the year, Number of new ties put in track in Michigan,	$\begin{array}{c} 27 \\ 8 \\ 4 \\ 20,997 \\ 20,997 \end{array}$
Bridges and Culverts.	
Amount of trestle work replaced with earth during the year (linear feet),  Timber culverts replaced during the year,	30 None.

# ROLLING STOCK.

New bridges built during the year,

Number of locomotives of more than 30 tons	Number.	Present Estimated Value.
weight, exclusive of tender,  Number of locomotives of 20 to 30 tons	19	_
weight, exclusive of tender,	1	
Total,	20	<b>\$144,750 00</b>
Number of passenger cars—8 wheel, includ-		
ing official cars,	5	18,000 00
Number of express and baggage cars,	2	5,000 00
Number of box freight cars,	38	16,150 00
Number of platform cars,	310	99,200 00
Number of logging trucks,	300	34,800 00
Number of conductors' way cars,	5	1,250 00
Other cars,—derrick,	1	1,800 00
Total,	661	<b>\$</b> 320,950 00

Number of locomotives equipped with power brakes, 20 Number of passenger-train cars equipped with power brakes, Number of freight cars equipped with power brakes, None.

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse and American.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? No. How are your passenger cars heated? Smith & Owen,—hot water heater.

# MILEAGE, TRAFFIC, ETC.

Train Mile	age.								
Miles run by passenger trains during the Miles run by freight trains during the ye Miles run by mixed trains,	year, ear, -	 	66,150 378,660 103,518						
Total mileage of trains earning rever	nue, <sub>-</sub>		548,328						
Passenger Traffic.									
Number of local passengers carried,	Numbers and Quantities. 113,764	Miles.	Rate. Dols. Cents.						
Total number of passengers carried, .	113,764								
Total passenger mileage, or passengers camile,	rried one	3,564,436							
Average distance traveled by each passer Average amount received from each pass Average rate of fare per mile for local pass Average rate of fare per mile for all pass	enger, assengers,	31.5  	\$0 78 02.49 02.49						
Freight Traffic.									
	Numbers and Quantities	. Miles.	Rate. Dollars. Cents.						
Number of tons of local freight carried,	871,763								
Number of tons of local freight carried,  Total tons of freight carried,		<b>}</b>							
	871,763	<b>}</b>							
Total tons of freight carried,	871,763	29,399,4 							
Total tons of freight carried,  Total freight mileage, or tons carried one  Average ton haul for local freight,	871,763 871,763 e mile, aul, for local free	29,399,4 	129  3.7						
Total tons of freight carried,  Total freight mileage, or tons carried one  Average ton haul for local freight,  Average amount received for each ton ha  Average rate per ton per mile, received for	871,763 871,763 e mile, aul, for local freigh	29,399,4 	129 3.7 3.7 3.7 						
Total tons of freight carried,  Total freight mileage, or tons carried one Average ton haul for local freight, Average amount received for each ton ha Average rate per ton per mile, received for each ton havera	871,763 871,763 e mile, aul, for local freigh	29,399,4 							

1889.]	DETROIT, B	AY CIT	Y & .	ALPEN	TA RA	ILROAD	CO.	185
Other iron as Stone, brick Manufacture		pped fro	om po	int of	produ d abo	ection,	- - - -	Tons. 466 2,514 510 437 890 11,376
Total for	rwarded,		-	_	-	•	_	871,763
	Tonnage of	Articles	Trans	ported-	–Entir	re Road.		
	•			•			ons.	Per Cent.
Grain,		_		_	_	3.0	080	.353
Flour.				_	_		508	.173
	peef, pork, lar	d. etc.).	_	_	-		696	.194
Animals.	, Polin, 1011	,,	-	_	-		459	.053
	ltural product	g.	_	-	-		300	.207
	forest product		-	-	-	. 842,		96.654
Coal,	rorost product	, .	-	-	-		566	.065
	and cement,	-	-	-	-	-	208	.024
Salt,			-	-	-		6 <b>52</b>	.419
Petroleum,		-	-	-	-		466	.053
	n, iron and stee	al roile		-	-		514	.288
	nd castings,			-	-		510	.058
Stone, brick		-	-	-	-		437	.052
		inna	<u> </u>	- 	<b>.</b>	•	£01	.002
	s,—articles sh	nppea	пош	point	01		000	100
production			- 4		4.3		890	.102
	and other art	ncies n	ot en	umera	tea		050	1.005.
above,			-	-	-	11,	376	1.305
Total to	ns carried,	_	-	-	_	871,	763	100.00

# ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. Rate one and one-half first-class as local business, first-class as through business. A general Express business.

Freights taken at depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 210 miles, Western Union Telegraph Co.

# Transportation Companies.

# SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad com-

. \$0 43

01.30

01.30

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Miles run by passenger trains during the Miles run by freight trains during the y Miles run by mixed trains,	e year, ear, _	 	66,150 378,660 103,518
Total mileage of trains earning reve	onue, _		548,328
Passenger I	raffic.		
Number of local passengers carried,	Numbers and Quantities. 113,764	Miles.	Rate. Dols. Cents.
Total number of passengers carried, .	113,764		
Total passenger mileage, or passengers comile,	arried one	3,564,436	
Average distance traveled by each passes Average amount received from each pass Average rate of fare per mile for local p Average rate of fare per mile for all passes	senger, assengers,	31.	\$0 78 02.49 02.49
Freight Tr	affic.		
Number of tons of local freight carried,	Numbers and Quantities. 871,763	Miles.	Rate. Dollars. Cents.
Total tons of freight carried,	871,763		
Total freight mileage, or tons carried on	e mile,	29,399,4	129 
Average ton haul for local freight, Average ton haul for all freight,		-	3.7 3.7

# Average rate per ton per mile, received for local freight, Average rate per ton per mile, received for all freight,

Average amount received for each ton haul,

Freight Fo	rwarded	l at M	ichiga1	n Stati	ons.		
							Tons.
Grain,		_	_	_	_	_	3,080
Flour,	_	_	_	_	_	_	1,508
Provisions (beef, pork, lard,	etc.),	_	-	_	_	_	1,696
Animals,	-	_	_		-	-	459
Other agricultural products,	_	-	_		_	_	1,800
Lumber and forest products,	_	_		_		_	842,601
Coal,	_	-	_	-	_	_	566
Plaster, lime and cement,	_	_	_	-	_	-	208
Salt,	-	_	-	-	-	-	3,652

1889.] DETROIT, BAY	CITY	& A	ALPENA	R.A	ILROA	D CO.	185
Petroleum, Railroad iron, iron and steel Other iron and castings, Stone, brick and sand, Manufactures—articles shipp Merchandise and other article	ed fron	- - 1 po	int of pr nerated	rodi abo	action,	- - - -	Tons. 466 2,514 510 437 890 11,376
Total forwarded,	-	-	-	-		-	871,763
Tonnage of Ar	ticles Tr	ran <b>s</b> j	oorted—E	Inti	re Road.		
•		_				Tons.	Per Cent.
Grain.					:	3,080	.353
Flour.	-		-	-		1.508	.173
Provisions (beef, pork, lard, e	atc.).	-	-	-		1,696	.194
Animals,	,,	-	-	-	-	459	.053
Other agricultural products,	-	-	•	-	1	1,800	.207
Lumber and forest products,		-	-	•		2,601	96.654
Coal.	-	-	-	-	• 01	566	.065
Plaster, lime and cement,	-	-	-	-		208	.024
Salt,	-	-	-	-	9	3, <b>652</b>	.419
Petroleum,	-	-	-		•	466	.053
Railroad iron, iron and steel r	oila .	-	•	-	(	2,514	.288
Other iron and castings,	GIID,		-	-	•	510	.058
Stone, brick and sand,	-	-	-	-		437	.052
Manufactures,—articles ship	e.	-	naint a	Ē		401	.002
	peu n	гош	point c	)1		890	.102
production,		-		a"		090	.102
Merchandise and other articl	es not	en	umerate	α	-	1 070	1.005
above,	-	-	-		1	1,376	1.305
Total tons carried,	-	-	-	-	87	1,763	100.00

# ADDITIONAL QUESTIONS.

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. Rate one and one-half first-class as local business, first-class as through business. A general Express business. Freights taken at depots.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 210 miles, Western Union Telegraph Co.

# Transportation Companies.

# SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad com-

pany have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Company, New York, mileage, \$2,141,91

# Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Amour Refrigerator Line, Chicago, Illinois,	_	_	_	<b>\$</b> 0	89
Arms Palace Horse Car Co., Chicago, Illinois,	_	_	_	5	16
Blue Line, Rochester, N. Y.,	_	_	_	435	62
Canada Southern Line, Rochester, N. Y.,		_	_	178	21
Columbus & Hocking, C. & J. Co., Columbus, Oh	nio,	_	_	7	03
Empire Line, Philadelphia, Pennsylvania,		_	_	2	09
Great Eastern Line, Detroit, Michigan,	_	_	_		78
G. H. Hammond & Co., Chicago, Illinois,	_	_	_	90	50
Merchants' Despatch Transportation Co., New Y	York,	N.	Y.,	105	88
Midland Line, Buffalo, N. Y.,	_ ′	_	٠.	2	29
Mattoon Manufacturing Co., Sheboygan, Wiscons	sin.	_	_		76
National Car Co., St. Albans, Vermont,	_	_	_	6	96
Ohio Coal Exchange, Columbus, Ohio,	_	_	_		<b>54</b>
Pittsburg & Toledo Despatch, Alleghany, Pennsy	lvani	a.	_	16	93
Red Line Transit Co., Buffalo, N. Y.,			_	6	32
Swift Refrigerator Transportation Co., Chicago, 1	Illino	is.		138	49
Somers Coal Co., Columbus, Ohio,	_		_	33	
Union Line, Pittsburg, Pennsylvania,	_	_			$\overline{94}$
5,,,,,,	-	-	-	_	

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

January 2, Joseph Gouthier, Sr., citizen, Tawas City. Struck by locomotive on highway crossing; company exonerated.

April 4, Mrs. J. McGuire, citizen, Handy. Walking on track; careless-

June 4, William Sullivan, citizen, AuSable. Lying on track; intoxicated. July 31, John Dewar, brakeman, Tawas Junction. Fell from train; carelessness.

November 7, Martin Hogan, WhitneyBranch. Thrown from train; accidental.

#### INJURED.

January 29, W. Sweeney, brakeman, Alpena. Finger crushed; coupling cars.

June 22, F. McGuire, brakeman, Alpena. Carelessness.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.		Injured.					
Cause of Accident.	Passengers, Employés. Other		Others.	Passengers,	Employés.	Others.			
Collisions									
Coupling cars		l			2	•••••			
Derailments Falling from trains		2				,			
Getting on and off trains									
Highway crossings			1						
Overhead obstructions									
Trespassers on track			2						
	<u> </u>								
Total		2	8	•••	2				

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	_	5
Number of persons injured during the year,	_	_	2
Number of casualties purely accidental,	_	_	3
Number resulting from lack of caution, carelessne	ss, or	mis-	
conduct,	· _	_	3
Persons killed or injured while intoxicated,	_	_	1

# CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Killed.	Injured.	Total.
1 1	2*	9
2	2	4
	1 1	1 2

STATE OF MICHIGAN, SS. COUNTY OF WAYNE.

Russell A. Alger, President, and J. C. McCaul, Auditor, of the Detroit, Bay City and Alpena Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

R. A. ALGER, J. C. McCAUL,

Subscribed and sworn to before me this 2d day of April, A. D. 1890.

G. H. STALKER, Notary Public.

# ANNUAL REPORT

OF THE

# SAGINAW, TUSCOLA AND HURON RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed April 4, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WM. L. WEBBER, East Saginaw, Mich. Vice President, GEO. W. MORLEY, East Saginaw, Mich. Secretary and Treasurer, E. T. JUDD, East Saginaw, Mich. Auditor, JAS. G. HARRIS, East Saginaw, Mich. Superintendent, M. V. MEREDITH, East Saginaw, Mich.

#### DIRECTORS.

WM. L. Webber, East Saginaw, Mich.
E. T. Judd, East Saginaw, Mich.
O. F. Wisner, East Saginaw, Mich.
John S. Estabrook, East Saginaw, Mich.
Geo. W. Morley, East Saginaw, Mich.
Jas. B. Peter, East Saginaw, Mich.
H. C. Potter, East Saginaw, Mich.

Terms expire May 16, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,-February 24,	1881.			
Number of stockholders at date of last election,	-	-	-	131
Number of stockholders in Michigan at same date,	-	-	-	126
Amount of full paid stock held in Michigan at same date,	-	-	-	<b>\$</b> 607 <b>00</b>
Date of annual meeting of stockholders,—May 16, 1890.				
Fiscal year of company ends December 31.				
General offices of the company are located at East Saginaw, M	ich.			

# GENERAL EXHIBIT.

Total income,	DEBIT	r. -	CREDIT. \$106,984	22
Total expenses, including taxes,	<b>\$7</b> 7,0 <b>2</b> 9	41		
Net income,		-	29,954	81
Interest on funded debt, \$11,400 00 Interest on unfunded debt, 22,927 87	<b>\$</b> 34,327	87		
Balance for the year,	<b>\$4,</b> 373	06		
Balance (profit and loss) last year,	42,156	09		
Balance forward to next year,		-	46,529	15
•	\$46,529	15	\$46,529	15
ANALYSIS OF CAPITAL	STOCK.			
Amount authorized by charter or articles of as	ssociation,	-	\$600,000	00
Par value of shares, Number of shares issued, Amount paid in on common, Amount paid in on shares not issued.—number.  \$100 00 1,233	\$123,300 255			
issued,—number, 6	200			
Total amount paid in as per books of the	company,	-	<b>\$123,555</b>	38
Paid in per mile of road owned by company,  —66.57 miles,  ANALYSIS OF DEBT ACCOU	<b>\$1,85</b> 6	<b>6 02</b>		
ANALISIS OF DEEL ACCOU	M 1.9.			

# FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When Due.	Where Payable.	Amount.
First mortgage, September 1, 1881	6%	September 1, 1921	New York	] \$190,000 00
Total funded debt			•	\$190,000 00

# UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
For construction		\$397,811 49 32,848 99
For renewals		2.852 71
Total unfunded debt		\$452,277 00

# RECAPITULATION.

Total funded debt, Total unfunded debt,		-	 			\$190,000 00 452,277 00						
Total debt liabilitie	8, .	-		-	•	\$642,277 00						
Amount of debt liabilities	es per mile	e of roac	d,—66.57	7 miles	3,	9,648 14						
Total amount of stock a	nd debt,	-		-		<b>\$765,832</b> 38						
Stock and debt per mile	of road,—	-66.57 m	iles,	-		11,504 16						
GENERAL BALANCE SHEET.—Dr.												
Construction account, Equipment account,			<b>\$5</b> 9	23,544 10,069		<b>\$</b> 699 619 <b>6</b> 1						
Cash items: Cash, Bills receivable, Due from agents,		-		\$3,690 917 765	00	\$633,613 71						
Other assets:  Materials and supplies Debit balances from a individuals, Bay Port Quarries, Bay Port Hotel,	companies	and .		\$7,721 11,330 50,004 11,261	31 10	5,372 25						
Balance,	-	-		-		80,317 27 46,529 15						
Total,		-		-	•	<b>\$</b> 765,832 <b>38</b>						
GEN	VERAL BA	LANCE	SHEET.	—Сr.								
Capital stock, . Funded debt, .			· •	-	-	\$123,555 38 190,000 00						
Unfunded debt: Interest unpaid, accru Vouchers and account	ed not due	<b>9,</b> 	. 44	<b>\$</b> 3,800 <b>1</b> 8,477	00 00							
Profit and loss or income	e accounts	•		-	-	<b>\$452,277</b> 00						
Total,			-	-	•	<b>\$765,832 38</b>						
COST	r of roal	D AND 1	EQUIPM	ENT.								
Total Cost for Construction	and Equip	ment of R	oad, and	Brancl	res Bu	ilt by Company.						
Total expended for construction and equipment, \$633,613 71  Average cost of construction per mile of road—not included												
sidings,—66.57 miles,				-	-	9,518 00 633,613 71						
Proportion of cost for M	nemgan,		· -	-	-	000,010 (1						

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

# MAIN LINE.

Extensions and new sidi New fences,	ngs,		-	-		-	\$1,953 22	
New cars,	-	-	-	-	-	<u>-</u>	5,527	80
Total charges,	-	-	-	-	- •	-	<b>\$7,503</b>	23
Total charges to propert Property sold and credit	ty acc ted,	count	as ab	ove,	• • • • •	-	7,503 544	
Net addition to pro	perty	acco	unt,	-			\$6,958	95
	ANA]	LYSIS	OF :	EARN	INGS.			•
	PA	SSENG	ER E	ARNIN	đs.			
Main line and branches	:							
Local fares,	-	-	-	-	<b>\$32,528</b>			
Through fares,	-	-	-	-	6,540	57		
Total passenger far	es.	_		_	\$39,069	<u>55</u>		
Express and baggage,	,	-	_	-	418			
Mails,		-	-	-	2,891	<b>49</b>		
Total passenger de	partn	ent e	arnin	gs,		-	<b>\$</b> 42,3 <b>7</b> 9	22
Proportion for Michig	van	_			<b>\$42,379</b>	22		
Per train mile,	5444,	-	-	-	Ψ12,010	49		
Per mile of road,	_	-	-	_	636	61		
	F	REIGE	IT EA	RNING	8.			
Main line and branches	:							
Local traffic,		_	_	_	\$60,255	06		
Through trafic,	_	_	-	-	3,935			
Total traffic,	-	-	-	-	\$64,190	83		
Total freight depar	tmen	t earn	ings,	-		-	<b>\$64,190</b>	83

Per train mile, Per mile of road,	-	-	-	-		964	09 26	
Total transportation	on ear	rnings,		-	-	-	-	\$106,570 05

Transportation earnings per mile of road,	\$1,600 87
Transportation earnings per train mile,	73
Miscellaneous receipts from operating account, other than for transportation, as follows:	

Proportion for Michigan, . . . \$64,190 83

From telegraph,	-	-	-	-	-	<b>\$414 17</b>
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Total earnings from operation of road,	-	-	106,984 22
--	---	---	------------

Total earnings per mile of		-	-		\$1,607			
Total earnings per train n	nile,		-	-		73.2	*100004	Ω.
Proportion of taxable earn	ings for	Mic	nigan,		-	-	\$106,984	Z
Total taxable earnings p Michigan,	er mne (		oad m	-	1,607	09		
Total income from all	sources,		-	-	-		<b>\$106,984</b>	22
Proportion of income for	Michigan	n,	-	-	-		106,984	22
A	NALYSIS	OF	EXPEN	ISE	S.			
Class 1.—	Maintena	nce o	f Way o	ınd	Buildin	gs.		
Repairs of road way and t	rack.						<b>\$15,86</b> 3	24
			-	-	-	-	2,143	
Renewals of ties,		-	-	-	-		2,342	
Repairs of bridges, includ	ling enly	erte	and cat	tle	onerds	-	553	
Repairs of fences, road cre	neginora o	nd e	ione	OIC	gunun	, -	1,791	
Repairs of buildings,	bomgs, a	ille 6	-	-	•	-	307	G
rechara or bundings,	-	-	-	-	-	-		_ 04
Total,	-	-	-	-	-	_	\$23,002	29
Class 2.—M	aintenanc	e of	Motive .	Pou	er and (	Cars.		
Repairs of locomotives,							<b>\$</b> 3,207	08
Renairs of passenger cars	-	-	-	•	-	-	1,794	OK
Repairs of locomotives, Repairs of passenger cars, Repairs of freight cars,	-	-	-	-	-	-	3,109	
	-	-	-	-	-	-		
	-			-	-	-	\$8,110	77
CLASS	3.—Cond	ectin	g Trans	port	ation.			
Fuel for locomotives,		_	_	-	_	_	\$9,732	54
Water supply,	_	_	_	_	_	_	840	
Oil and waste,	_	_	_	_	_	_	1,003	
Oil and waste, Locomotive service, Passenger train service,	_	_	_	_	_	_	9,622	56
Passenger train service.	_	_	_	_	_	_	3,252	50
Passenger train supplies, Mileage of passenger cars Freight train service,	-	_	_	_	-	_	557	0:
Mileage of passenger cars	_	_	-	-	-	_	89	
Freight train service.	,	-	-	•	-	-	4,646	
Freight train supplies	=	-	-	-	-	-	65	
Freight train supplies, Mileage of freight cars,	-	-	-	-	-	-	204	
Damage and loss of freigh	ht and h	- 0 (7479)	ma -	-	-	-	7	
Damage and loss of freigh	oottle	agga	ge,	-	-	-	290	
Damages to property and	Cattle,	-	-	-	-		203	
Personal injuries,	-	~	-	-	-	-		~ .
Agents and station service	-	-	-	-			6,397 <b>42</b> 3	
Station supplies, .	-	-	-	•	-	-	420	U
Total,	-	-	-	-	-	-	<b>\$37,33</b> 5	3
(	CLASS 4.—(	Jene1	ral Expe	nses	3.			
Salaries of the general of			_				\$3,024	90
Salaries of clerks in general	ral offices	1	~mpan	٠,	•	-	1,110	ñ
Law expenses,	THE OTHER	,	•	-	-	-		10
OF	-	-	-	-		-	<b>T</b>	Τ,

Stationery and printing,   1,030	19 <del>4</del>	MICHIGAN	RAILI	CAO	RET	JRNS.		[Dec.	. 3
Stationery and printing.  Outside agencies and advertising, 259 Contingencies, 311 Taxes, 2,165  Total, \$8,581  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 29,86 \$23,002 Maintenance of motive power and cars, 10,52 8,110 Conducting transportation, 48,47 37,335 General expenses, including taxes, 11,15 8,581  Total operating expenses and taxes per mile of road, 11,157 11 Operating expenses and taxes per train mile run, for trains earning revenue, 144,737 miles, 77,029 Operating expenses and taxes per train mile run, for trains earning revenue, 144,737 miles, 53,2 Proportion of operating expenses and taxes for Michigan: Main line, 77,029 41  Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings,—72%. Net earnings per mile of road, \$449 97 Net earnings per mile of road, \$449 97 Net earnings per train mile, 20,7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From East Saginaw to Sebewaing, April 4, 1882. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Milles, 100ths, Miles, 10 Milles, 100ths, Milles, 10 Mil	Insurance.			_			_	<b>\$</b> 175	5
Contingencies, 2,165  Total, \$8,581    RECAPITULATION OF EXPENSES.   RECAPITULATION OF EXPENSES.   Per Cant of Expenses   Recapitation   Reca	Stationery and p	rinting.	_	_		_	_	1.030	2
Contingencies, Taxes, 2,165  Total, \$8,581  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 29,86 \$23,002 Maintenance of motive power and cars, 10.52 8,110 Conducting transportation, 48,47 37,335 General expenses, including taxes, 11.15 8,581  Total operating expenses and taxes, 100.00 \$77,029  Operating expenses and taxes per mile of road, for trains earning revenue, 144,737 miles, 100.00 \$77,029  Operating expenses and taxes per train mile run, for trains earning revenue, 144,737 miles, 100.00 \$77,029  Operating expenses and taxes per mile of road, 100.00 \$77,029  Operating expenses and taxes for Michigan. 53.2  Proportion of operating expenses and taxes for Michigan. 77,029 41  Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings, 72%. Net earnings per mile of road, \$449 97  Net earnings per mile of road, \$449 97  Net earnings per train mile, 20.7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886.  Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  In Michigan, from East Saginaw to Bad Axe, 64.38  Total length completed, 64.3  BRANCHES.  From Bay Port Junction to Bay Port, 138  From Quarry Junction to Quarry, 81	Outside agencies	and advertisi	ng.	_	_	_	_		
Taxes, 2,165  Total, \$8,581  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 29,86 \$23,002 Maintenance of motive power and cars, 10,52 8,110 Conducting transportation, 48,47 37,335 General expenses, including taxes, 111,15 8,581  Total operating expenses and taxes, 100,00 \$77,029  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue, 144,737 miles, Proportion of operating expenses and taxes for Michigan:  Main line, 77,029 41  Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings, 72%. Net earnings per mile of road, 9449 97 Net earnings per mile of road, \$449 97 Net earnings per train mile, 20,7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From East Saginaw to Sebewaing, April 4, 1882. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  In Michigan, from East Saginaw to Bad Axe, 64,38  Total length completed, 64,3  BRANCHES.  From Bay Port Junction to Bay Port, 1,38 From Quarry Junction to Quarry, 81	Contingencies.	, and an continu	10	•	-	-	-		-
Maintenance of way and buildings, — 29.86 \$23,002  Maintenance of motive power and cars, — 10.52 8,110  Conducting transportation, — 48.47 37,335  General expenses, including taxes, — 100.00 \$77,029  Total operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue, — 144,737 miles, Proportion of operating expenses and taxes for Michigan:  Main line, — 77,029 41  Total proportion of expenses for Michigan, — \$77,029  Percentage of expenses to earnings, —72%. Net earnings per mile of road, — \$449 97  Net earnings per mile of road, — \$449 97  Net earnings per mile of road, — \$449 97  Net earnings per train mile, — 20.7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Maines, 100ths, Miles, 10 M		<u> </u>		-			-		
Maintenance of way and buildings, - 29.86 \$23,002 Maintenance of motive power and cars, - 10.52 8,110 Conducting transportation, - 48.47 37,335 General expenses, including taxes, - 11.15 8,581  Total operating expenses and taxes, - 100.00 \$77,029  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue, -144,737 miles, Proportion of operating expenses and taxes for Michigan:  Main line, 77,029 41  Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings, -72%. Net earnings per mile of road, Net earnings per mile of road, \$449 97 Net earnings per mile of road, \$449 97  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  In Michigan, from East Saginaw to Bad Axe, 64.38  Total length completed, 64.3  BRANCHES.  From Bay Port Junction to Bay Port, 1.38  From Quarry Junction to Quarry, 81.38	Total,	<u>-</u>	. <u>.</u>	_	_	_	_	\$8,581	-
Maintenance of way and buildings, - 29.86 \$23,002 Maintenance of motive power and cars, - 10.52 8,110 Conducting transportation, - 48.47 37,335 General expenses, including taxes, - 11.15 8,581  Total operating expenses and taxes, - 100.00 \$77,029  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue, -144,737 miles, Proportion of operating expenses and taxes for Michigan:  Main line, 77,029 41  Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings, -72%. Net earnings per mile of road, Net earnings per mile of road, \$449 97 Net earnings per mile of road, \$449 97  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  In Michigan, from East Saginaw to Bad Axe, 64.38  Total length completed, 64.3  BRANCHES.  From Bay Port Junction to Bay Port, 1.38  From Quarry Junction to Quarry, 81.38	,	RECAPIT	ULATION	OFE	XPEN	ISES.			
Maintenance of way and buildings, 29.86 \$23,002 Maintenance of motive power and cars, 10.52 8,110 Conducting transportation, 48.47 37,335 General expenses, including taxes, 11.15 8,581  Total operating expenses and taxes, 100.00 \$77,029  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue, 144,737 miles, Proportion of operating expenses and taxes for Michigan:  Main line, 77,029 41  Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings, 72%.  Net earnings per mile of road, \$449 97 Net earnings per mile of road, \$449 97 Net earnings per mile of road, \$449 97 DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  In Michigan, from East Saginaw to Bad Axe, 64.38  Total length completed, 64.3  BRANCHES.  From Bay Port Junction to Bay Port, 1.38 From Quarry Junction to Quarry,						Per Ce			
Maintenance of motive power and cars, - 10.52 8,110 Conducting transportation, - 48.47 37,335 General expenses, including taxes, - 111.15 8,581  Total operating expenses and taxes, - 100.00 \$77,029  Operating expenses and taxes per mile of road, \$1,157 11 Operating expenses and taxes per train mile run, for trains earning revenue, —144,737 miles, Proportion of operating expenses and taxes for Michigan:  Main line, 77,029 41  Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings, —72%. Net earnings per mile of road, \$449 97 Net earnings per train mile, 20.7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Miles, 100ths, Miles, 10 64.38  Total length completed, 64.3  BRANCHES.  From Bay Port Junction to Bay Port, 138 From Quarry Junction to Quarry, 81  1.38 From Quarry Junction to Quarry, 81  1.38 From Quarry Junction to Quarry, 81  1.38  From Quarry Junction to Quarry, 81  1.38  From Quarry Junction to Quarry, 81  1.38  From Quarry Junction to Quarry, 81  1.38	M-!4	1:13	·					മോ ഹര	
Conducting transportation,	Maintenance of	way and build	.ings,	-	-	1	0.00 0.50		
General expenses, including taxes, - 11.15 8,581  Total operating expenses and taxes, - 100.00 \$77,029  Operating expenses and taxes per mile of road, operating expenses and taxes per train mile run, for trains earning revenue,—144,737 miles, 53.2  Proportion of operating expenses and taxes for Michigan:  Main line, - 77,029 41  Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings,—72%. Net earnings per mile of road, \$449 97  Net earnings per mile of road, \$449 97  Net earnings per train mile, 20.7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:  From East Saginaw to Sebewaing, April 4, 1882.  From Bay Port to Bad Axe, July 1, 1886.  Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  In Michigan, from East Saginaw to Bad Axe, 64.38  Total length completed, 64.3  BRANCHES.  From Bay Port Junction to Bay Port, 1.38  From Quarry Junction to Quarry, 81.38	Maintenance of	motive power	ana car	8, -	-	1	0.02		
Total operating expenses and taxes, - 100.00 \$77,029  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—144,737 miles, Proportion of operating expenses and taxes for Michigan:  Main line, 77,029 41  Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings,—72%. Net earnings per mile of road, \$449 97  Net earnings per train mile, 20.7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:  From East Saginaw to Sebewaing, April 4, 1882.  From Sebewaing to Bay Port, June 15, 1884.  From Bay Port to Bad Axe, July 1, 1886.  Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Milles, 100ths, Miles, 10  64.38  Total length completed, 64.38  From Bay Port Junction to Bay Port, 1, 1, 38  From Bay Port Junction to Bay Port, 1, 38  From Quarry Junction to Quarry, 81  BRANCHES.	Conducting trans	sportation,		-	-				
Operating expenses and taxes per mile of road, \$1,157 11 Operating expenses and taxes per train mile run, for trains earning revenue,—144,737 miles, 53.2 Proportion of operating expenses and taxes for Michigan:  Main line, 77,029 41  Total proportion of expenses for Michigan, 77,029  Percentage of expenses to earnings,—72%. Net earnings per mile of road, \$449 97 Net earnings per train mile, 20.7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Milies, 100ths, Miles, 10  Milles, 100ths, Miles, 10  BRANCHES.  From Bay Port Junction to Bay Port, 1, 1, 38  From Quarry Junction to Bay Port, 1, 38  From Quarry Junction to Quarry, 8, 81	General expense	s, including ta	xes,	-	-		.1.19	8,981	. ·
Operating expenses and taxes per train mile run, for trains earning revenue,—144,737 miles, 53.2  Proportion of operating expenses and taxes for Michigan:  Main line, 77,029 41  Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings,—72%.  Net earnings per mile of road, \$449 97  Net earnings per train mile, 20.7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:  From East Saginaw to Sebewaing, April 4, 1882.  From Bay Port to Bad Axe, July 1, 1886.  Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  MILES, 1000188, MILES, 100  BRANCHES.  From Bay Port Junction to Bay Port, 1.38  From Bay Port Junction to Bay Port, 1.38  From Quarry Junction to Quarry,	Total operat	ting expenses	and tax	96, -	-	10	0.00	<b>\$77,029</b>	4
for trains earning revenue,—144,737 miles, Proportion of operating expenses and taxes for Michigan:  Main line,						\$1,15	7 11		
Michigan: Main line,  Total proportion of expenses for Michigan,  From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Miles, 100ths, Miles, 10 G4.38  Total length completed,  BRANCHES.  From Bay Port Junction to Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  Bay Port,  BRANCHES.  From Bay Port Junction to Bay Port,  BRANCHES.	for trains ear	ning revenue,	-144,7	37 mi	les,		53.2		
Total proportion of expenses for Michigan, \$77,029  Percentage of expenses to earnings,—72%. Net earnings per mile of road, \$449 97 Net earnings per train mile, 20.7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Miles, 100ths, Miles, 10 64.38  Total length completed, 64.38  From Bay Port Junction to Bay Port, 1.38 From Quarry Junction to Quarry,		perating expen	ses and	taxes	for				
Percentage of expenses to earnings,—72%.  Net earnings per mile of road, \$449 97  Net earnings per train mile, 20.7  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:  From East Saginaw to Sebewaing, April 4, 1882.  From Sebewaing to Bay Port, June 15, 1884.  From Bay Port to Bad Axe, July 1, 1886.  Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Milea. 100tha. Miles. 10  BRANCHES.  From Bay Port Junction to Bay Port, 64.38  From Quarry Junction to Quarry, 1.38  From Quarry Junction to Quarry, 81				_	-	77,02	9 41		
Date when the road was opened for use between its present termini:  From East Saginaw to Sebewaing, April 4, 1882.  From Sebewaing to Bay Port, June 15, 1884.  From Bay Port to Bad Axe, July 1, 1886.  Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Miles. 100ths. Miles. 10  64.38  Total length completed,	Total propo	rtion of expen	ses for	Michi	gan,	-	-	\$77,029	) 4
From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Miles, 100ths, Miles, 10 64.38  Total length completed,	Percentage of ex Net earnings per	xpenses to ear r mile of road,	nings,–			,		\$77,029	,
From East Saginaw to Sebewaing, April 4, 1882. From Sebewaing to Bay Port, June 15, 1884. From Bay Port to Bad Axe, July 1, 1886. Quarry Junction Branch to Bay Port Quarry, November, 1883.  MAIN LINE.  Miles, 100ths, Miles, 10 64.38  Total length completed,	Percentage of ex Net earnings per	xpenses to ear r mile of road, r train mile,	nings,—	- <b>72%.</b> - -	-	<b>\$44</b>		\$77,029	,
In Michigan, from East Saginaw to Bad Axe, 64.38  Total length completed, 64.38  BRANCHES.  From Bay Port Junction to Bay Port, 1.38 From Quarry Junction to Quarry, 1.38	Percentage of ex Net earnings per Net earnings per	xpenses to ear r mile of road, r train mile,	nings,—	-72%. - - - - OF	- - ROA	\$44 \$45 D.	20.7		
In Michigan, from East Saginaw to Bad Axe, 64.38  Total length completed, 64.3  BRANCHES.  From Bay Port Junction to Bay Port, 1.38 From Quarry Junction to Quarry, 1.38  81	Percentage of existence Net earnings per	xpenses to ear r mile of road, r train mile,  DESC e road was ope naw to Sebewa g to Bay Port, to Bad Axe, J	RIPTIO ened for sing, A June I	-72%. N OF use b	ROA1  etwe 1882 4.	\$44 D. en its	20.7 present	t termini:	
BRANCHES.  From Bay Port Junction to Bay Port, 1.38 From Quarry Junction to Quarry, 1.38	Percentage of existence Net earnings per	xpenses to ear r mile of road, r train mile,  DESC e road was ope naw to Sebewa g to Bay Port, to Bad Axe, J	ERIPTION OF THE PROPERTY OF TH	-72%.  N OF use b pril 4, 5, 188 886. Quarr	ROA1  etwe 1882 4.	\$44 D. en its	20.7 present	t termini:	
From Bay Port Junction to Bay Port, 1.38 From Quarry Junction to Quarry, 1.81	Percentage of ex Net earnings per Net earnings per Date when the From East Sagi From Sebewains From Bay Port Quarry Junction	xpenses to ear r mile of road, r train mile,  DESC e road was ope naw to Sebewe g to Bay Port, to Bad Axe, J n Branch to Be	ERIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	-72%. ON OF Tuse to pril 4, 5, 188 1886. Quart	ROAL petwee 1882 4. ry, N	\$44 D. en its	20.7 presenter, 188	t termini:	
From Quarry Junction to Quarry,	Percentage of experience Net earnings per Net earnings per Net earnings per Date when the From East Sagis From Sebewaing From Bay Port Quarry Junction In Michigan, from In Michigan, In Michiga	xpenses to ear r mile of road, r train mile,  DESC e road was ope naw to Sebewa g to Bay Port, to Bad Axe, J n Branch to Ba	ERIPTION OF THE PROPERTY OF TH	-72%.  N OF use to pril 4, 5, 188, 886. Quarrante	ROAL betwee 1882 4. ry, N	\$44 D. en its	20.7 presenter, 188	t termini:	100
	Percentage of experience Net earnings per Net earnings per Net earnings per Date when the From East Sagis From Sebewaing From Bay Port Quarry Junction In Michigan, from In Michigan, In Michiga	xpenses to ear r mile of road, r train mile,  DESC e road was ope naw to Sebewa g to Bay Port, to Bad Axe, J n Branch to Ba	RIPTIO ened for sing, A; June 1 fuly 1, 1 ay Port MAIN	-72%.  N OF use to pril 4, 5, 188 .886. Quarr LINE. Bad Ax	ROAL betwee 1882 4. ry, N	\$44 D. en its	20.7 presenter, 188	t termini:	100
Total length of branches owned by company, 2.1	Percentage of ex Net earnings per Net earnings per Net earnings per Date when the From East Sagi From Sebewain From Bay Port Quarry Junction In Michigan, from Total length	xpenses to ear r mile of road, r train mile,  DESC e road was openaw to Sebewe g to Bay Port, to Bad Axe, J n Branch to Be om East Sagin h completed,	RIPTIO ened for sing, A June 1 luly 1, 1 ay Port MAIN aw to I  BRAN	-72%.  IN OF: use boril 4, 5, 188.  EN Guard  LINE.  Bad And  CHES.	ROAL betwee 1882 4. ry, N	\$44 D. en its	20.7 presenter, 188 Miles. 64	t termini: 3. 100ths, Miles, 1 2.38 64.3	100

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7
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? s 9 4

196		MICH	IGAN	RAI	LRO.	D RI	etur	NS.		[Dec. 31,
				Ste	ations	•				
Number of stat	ions	on wl	iole li	ine,	_	_	_	_	_	18
Same in Michi			-				-	-	-	18
				$oldsymbol{E}$ 1	mploy	és. '				
Number of persons regularly employed on all roads operated										
by company, including officials, Same in Michigan,							81 81			
Classify your en						- liut·	-	•	•	OI.
Classify your en	прю	yes a	per	TOTIO	n mg	1150.				NUMBER.
Brakemen,	-	-	-	-	_	_	_	-	_	6
Conductors,	-	-	-	-	-	-	-	-	-	3 5
Engineers,	-	-	-	-	-	-	-	-	-	5 5
Conductors, Engineers, Firemen, Laborers, Shopmen, Others	-	-	-	-	-	-	-	_	-	33
Shopmen,	-	-	-	-	-	-	-	-	-	4
Others, -	-	-	-	-	-	-	-	-	-	25
			REPAI	RS A	ND R	ENEW!	LS.			
			Fen	cina	in Mi	chigar	).			
TT '1				•		on gan	••			100 14
How many mile	98 OÎ	fenci	ng ha	ve yo	u?	-	-	-	-	133.14
			Ro	ad Be	d and	Track	:.		•	
Number of trac	k sec	tions	in M	ichig	an,	_	_	_	-	11
								-	-	6
Average length Average number Number of new Number of new	or of	men i	n eac	h sec	tion	gang,	- ·ho w	-	-	3 21,572
Number of new	ties	put i	n trac	ck in	Mich	igan,	ne ye	-	-	21,572
Average number	er of	new t	ies p	er mi	le of	road,	-	-	-	324
New rails put i Iron (tons 69			1 27							•
Total miles of t	rack	laid v	with r	iew r	ails,	_	_	_	_	1.27
			Rr	idaes i	and C	ulvert:	R.			
A	41 .	1		•				<b></b>		
Amount of tre (linear feet),			-						•	None.
Timber culvert	s rep	laced	durin	g the	year	;	-	-	-	None.
New bridges by	ıilt d	uring	the y	7 <b>ear</b> ,-	-nun	ıber,		-	-	None.
			RC	LLIN	1G S'	rock.	•			
								Nur	nber.	Present Estimated Value.
Number of loco			f 20 t	to <b>30</b>	tons	weigh	ıt,		_	
exclusive of t			- 6 10 4	- - 00 4	<b>-</b>		_		3	<b>\$14,000 00</b>
Number of loce exclusive of			. 10 6	0 2U 1 -	ons	weign -	ıt, -		5	17,000 00
								_		<del></del>

Total,

\$31,000 00

8

ı	<b>07</b>
ı	91

Number of pa	assen <i>g</i> er c	ars8-v	vheel, in	cludi	nø		•	
official cars,			-	-		8	<b>\$12,000 00</b>	
Number of ex	press and	baggage	cars,	-	-	4	3,000 00	
Number of bo			· -	-	-	97	34,000 00	
Number of sta				-	-	9	2,000 00	
Number of pla				-	-	129	22,000 00	
Number of con	nductors' v	vay cars,		-	-	2	600 00	
Other cars,			-	-	-	24	700 00	
Total,			· -	-	-	273	<b>\$</b> 105,300 00	
Number of le	ocomotives	eauipi	ed with	1 100	rer			
brakes, -				-	_	8		
Number of pa	ssenger-tra	in cars	equipp	ed w	ith			
power brake			·	-	-	8		
Number of fr	eight cars	equip	ped with	ı pov	ver			
brakes,			_	-	-	83		
	ars with e	brakes leach?	have you Eames'	i in u Vacuu	1se, a 1m, 8	nd numbe locomotive	r of locomo- es, 8 coaches,	
3 baggage cars.  Are your freight cars being equipped with automatic couplers as required								
by Act No. 147, Session Laws of 1885? Yes.								
What pattern or patterns have you adopted for use? McCree.								
How are you								
•	- 0			-				

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Miles run by passenger trains during the Miles run by freight trains during the ye	year, _	-	86,204 58,533
Total mileage of trains earning reven	-	144,737	
Passenger Tr	affic.		
Number of through passengers carried, Number of local passengers carried, Total number of passengers carried,	Numbers and Quantities.  3,502 69,271  72,773	Miles.	Rate. Dollars. Cents.
Total passenger mileage, or passengers care Average distance traveled by each passen Average amount received from each passe Average rate of fare per mile for through Average rate of fare per mile for local pa Average rate of fare per mile for all passe	1,774, - - -	645 24 \$0 53.000 - 02.782 - 02.047 - 02.201	

# Freight Traffic.

Number of tons of through fr Number of tons of local freig	eight ht car	carried	<b>l, 3</b> ,	mbers pantities. 165 ,825	Miles.	Rate. Dollars. Cents.
Total tons of freight carr	ried,	-	85,	,990	•	
Total mileage of through frei Total mileage of local freight	ight.		-	-	212,09 3,415,43	
Total freight mileage, or	tons	carried	one	mile,	3,627,5	33
Average ton haul for through Average ton haul for local fr Average ton haul for all freig	eight,	_	- -	- - -		67 41 42
Average amount received for Average rate per ton per mile Average rate per ton per mile Average rate per ton per mile	receiv e, rece	ed for tived for	throu r loce	al freig	ht,	74.600 01.855 01.764 01.769
Freight Fo	rwarde	ed at Mi	chiga	n Statio	ns.	<b>M</b>
Grain, Flour, Charles and Lord	- 	-	-		- -	Tons. 3,146 1,118
Provisions (beef, pork, lard, Animals,	etc. ),				_	957 33
Other agricultural products, Lumber and forest products,					-	809 35,958
Coal,	_		•		-	114
Plaster, lime and cement, Salt,	-				-	1,665 403
Salt, Petroleum, Other iron and castings,	- · -				-	168 33
Stone, brick and sand, Manufactures,—articles shipp Merchandise and other article	ed fro	om poir	t of	produc	etion,	37,250 267 4,069
	OB HOU	Citalic	14000	i above	• -	<del></del>
Total forwarded,	-		-		-	85,990
Tonnage of Ar	ticles I	Trans por	rted	-Entire	Road.	
Grain, Flour,	-	-	-		Tons. 3,146 1,118	Per Cent. 03.65 01.30
Provisions (beef, pork, lard, Animals,	_	- \	-		957 33	01.11 00.04
Other agricultural products, Lumber and forest products,		-	-		809 35,958	00.94 41.81
Coal,	-	-	-	·	114	00.15
Plaster, lime and cement, Salt.		-	-		1,665 403	01.95 00.46
Petroleum, Other iron and castings,	•	-	-		168 33	00.19 00.04
	-	-	-		30	00.01

Stone, brick and sand,	Tons. 37,250	Per Cent. 43.32
Manufactures,—articles shipped from point of production,  Merchandise and other articles not	267	00.31
enumerated above,	4,069	04.73
Total tons carried,	85,990	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies? American Express Company, one and one-half first-class rates, freight taken from depot.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 66.57 miles, owned by this company.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

April 13, Arthur Lucas, Unionville. Driving on track in front of train; his own fault.

#### INJURED.

February 16, Philip Harsch, brakeman, Bay Port Junction. Carelessness.

March 2, Charles Pomeranki, brakeman, Sebewaing. Carelessness. April 13, Robert Smith, Unionville. Carelessness.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.		Injured.				
OBLIGHT OF LICOTURE.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.		
ollisions				1				
oupling cars					2			
erailments		l	<del></del>					
alling from trains								
rogs								
etting on and off trains	}							
ighway crossings			1			!		
iscellaneousverhead obstructions								
respensers on trains								
responsers on tracks								
iveponent on Mariani								
Total	1	1	1	1	9	i		
AVIII			•			1		

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,						1
Number of persons killed during the year,	-	-	-	-	-	1
Number of persons injured during the year,	_	_	_	_	_	3
Number of casualties purely accidental,		_	_	_	_	
Number resulting from lack of caution, careless	snes	s. or	misc	ondu	ct.	4
Persons killed or injured while intoxicated,		•			, ,	
rersons killed or injured while intoxicated,	-	-	-		-	_
Trespassers and tramps killed or injured,	_	_	-	•	-	
Suicides.						

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	Killed,	Injured.	Total,
Baggagemen			
Brakemen. Conductors		2	
Engineers. Firemen.			
Laborers. Shopmen. Yardmen.			
Yardmen Not classified above	1	1	
Total	·	3	
10081	1	•	

STATE OF MICHIGAN, Solution Saginaw, St.

Wm. L. Webber, President, and Jas. G. Harris, Auditor, of the Saginaw, Tuscola & Huron Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

WM. L. WEBBER. JAS. G. HARRIS.

Subscribed and sworn to before me this 3d day of April, A. D. 1890.

Samuel G. Higgins, Notary Public.

#### ANNUAL REPORT

#### OF THE

# CHICAGO, DETROIT & CANADA GRAND TRUNK JUNCTION RAILWAY COMPANY.

For the Year Ending December 31, 1889.

[Filed April 5, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, Sir JOSEPH HICKSON, Montreal, Quebec. Vice President, L. J. SEARGEANT, Montreal, Quebec. Secretary, ROBT. WRIGHT, Montreal, Quebec. Accountant, JAS. H. MUIR, Detroit, Mich. General Manager, W. J. SPICER, Detroit, Mich. Superintendent, A. B. ATWATER, Detroit, Mich. Chief Engineer, GEORGE MASSON, Detroit, Mich. Attorney, E. W. MEDDAUGH, Detroit, Mich.

#### DIRECTORS.

SIR JOSEPH HICKSON, MONTREAL, QUEDEC.
L. J. SEARGEANT, MONTREAL, QUEDEC.
JOHN BELL, Belleville, Ontario.
E. W. MEDDAUGH, Detroit, Mich.
ROBT. WRIGHT, MONTREAL, QUEDEC.

Terms expire September, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, March 18, 1858.	
Number of stockholders at date of last election,	23
Number of stockholders in Michigan at same date,	1
Amount of full paid stock held in Michigan at same date,	<b>\$100.00</b>
Date of annual meeting of stockholders,Last Wednesday of September.	
Fiscal year of company ends,—December 31.	
General offices of the company are located at Detroit, Michigan.	

# GENERAL EXHIBIT.

m . 1 .		DE	BIT. CREDIT.
Total income, Total expenses, including taxes,		\$237,306	- <b>\$</b> 250,029 11
Net income,			- 12,722 41
Interest on funded debt,—6%, Interest on stock,—4%,	\$65,700 43,800		00
Balance for the year, deficit,		- 96,777	<u>59</u>
Items not included in above, Contribution from Grand Tru towards interest liabilities,			<b>\$96,777</b> 59
ANALYSIS	OF CAPITA	AL STOCK.	
Amount authorized by charter of	or articles o	of association	n, <b>\$1,095,000 00</b>
Par value of shares, No. of shares issued,			
Amount paid in on common,	-	\$978,984	67
Total amount paid in as per b	ooks of the	company, -	\$978,984 67
Paid in per mile of road owne —59.37 miles,	d by compa	any <b>\$18,44</b> 3	8 65
		<del></del>	- <del></del>

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When Due.	Where Payable.	Amount.
First mortgage bonds, July, 1864	8%	July, 1884	London, Eng.	\$1,095,000 00
Bonds exchangeable for stock within ten years from June 26, 1888, no interest paid.	5%			691,141 46
Total funded debt			• • • • • • • • • • • • • • • • • • • •	\$1,786,141 46
UNF	UNDEI	DEBT.		

Unfunded debt, None.

# RECAPITULATION.

		F	RECAI	PITUL	ATION.					
Total funded debt,	-	-	-	-	-	-	-	-	\$1,786,141	<b>4</b> 6
Total debt liab	ilitie	s,	-	-	-		-		\$1,786,141	46
Amount of debt liab	bilitie	es per	mile	of ro	ad,—	59.37 r	niles,	-	30,084	92
Total amount of sto	ck an	ıd deb	ot,	_	-	_	_	_	\$2,881,141	46
Stock and debt per	mile	of ro	ad,	-	-	-	-	-	48,528	57
	GEN	ERAI	BA	LANC	E SHI	EET.—1	Dr.			
Construction accoun	nt,	-	-	-	-	-	-	-	\$2,765,126	13
Operated by the G	irand ent b	Trui alanc	nk F es.	Railwa	y Co	mpany	, her	ice		
Total,	_	_	_	-	-	-	-	-	\$2,765,126	13
	GEN	VERA	L BA	LANC	E SH	EET	Cr.			
Capital stock,	_	_	_	_	_	<b>\$</b> 1,095	000.	00		
Realized,	-	-		-	-	-	-	-	\$978,984	
Funded debt,	-	-	-	-	-	-	-	-	1,786,141	46
Operated by the C there are no curr				Railwa	ву Со	mpany	, hei	nce		
Total,	-	-	-	_	-	-	-	-	\$2,765,126	13
	COST	OF	ROA	D AN	D EQ	UIPM	ENT.			
Total Cost for Constru	ıction	and E	quip	nent oj	f Road	and B	ranch	es B	uilt by Compo	any.
Total expended for	const	tructi	on,	-	-	_	-	-	<b>\$</b> 2,765,126	13
Average cost per	mile	of ro	oad,	not i	nclud	ing si	dings	<b>,</b> —		
59.37 miles, Proportion of cost	- Fon M	Jahia	-	-	-	-	-	-	46,574 2,765,126	
Equipment furni					-	-		-	2,700,120	
		ANAI	LYSI	SOF	EARN	INGS.				
		PAS	SSENC	ER E	ARNIN	G8.				
Main line:										
Local fares,	-	-		-	-	\$88	5,053	08		
Through fares,	-	-		-	-	44	1,022	55		
Total passenger far	es,	_	_	_	_	\$129	,075	63		
Express and bagga	ge,		-	-	-	10	),211	04		
Mails,	-	-	-	-	-	9	9,374	<b>68</b>		
Total passenge	r dep	artm	ent e	arnin	ıgs,	-	-	-	<b>\$148,661</b>	35

Proportion for Michigan, Per train mile, Per mile of road,	- - -	-	- -	<b>\$148,6</b> 0	61 35 55 03 98		
	FREIGH	T EAR	NING8.				
Main line: Local traffic, Through traffic,	 -	<del>-</del>	-	\$52,357 48,249	02 44		
Total traffic,		-	-	<b>\$</b> 100,606	26		
Total freight departm	ent earn	ings,	_			<b>\$100,606</b>	26
Proportion for Michigan, Per train mile, Per mile of road,	 	_		\$100,606 1,694			
Total transportation e	arnings,	-	_			249,267	61
Transportation earnings p Transportation earnings p From rentals of tracks and	er train :	mile,		<b>\$4,19</b> 8	54 93	761	50
Total earnings from o	peration	of roa	d,		_	250,029	11
Total earnings per mile of Total earnings per train me Proportion of taxable earnings per Michigan,	ile, ings for r mile	Michi of roa	gan, d in		93	250,029	11
Total income from all			_	<u>.</u> .		\$250,029	11
Proportion of income for I	Michigar	ı, <sub>-</sub>	-			250,029	11
	NALYSIS						
Class 1.—1				d Building	18.		
Repairs of road way and to Renewals of rails, Renewals of ties, Repairs of bridges, include Repairs of fences, road cro- Repairs of buildings,	ing culve ossings,	erts and	d cattl		-	\$23,138 1,377 9,323 3,025 1,527 11,751	02 55 17 76
Total,	_	-	_		_	\$50,143	73
Class 2.—Mo	a <b>inte</b> nanc	e of Mo	tive Po	wer and C	ars.	٠	
Repairs of locomotives, Repairs of passenger cars, Repairs of freight cars,	- - -	-	 	. <u>.</u>	-	\$24,056 20,575 19,358	99
Total,	-	-	-		-	<b>\$</b> 63,990	93

#### Class 3.—Conducting Transportation. **\$19,198 59** Fuel for locomotives, 1,557 30 Water supply, Oil and waste, 1,305 03 Locomotive service, Passenger train service, Passenger train supplies, 26.065 92 3,606 83 875 23 Freight train service, Freight train supplies, 7,214 72 1,750 57 3,300 00 Mileage of freight cars, Telegraph expenses (maintenance and operating), 5.123 50 Damage and loss of freight and baggage, 881 69 Damage to property and cattle, 260 73 Personal injuries, 734 90 Agents and station service, 29,198 72 7,503 61 Station supplies, \$108,577 34 Total, OLASS 4.—General Expenses. \$1,000 00 Salaries of the general officers of the company, Salaries of clerks in general offices, 2,000 00 Law expenses, 1.500 00 Stationery and printing, Outside agencies 2,704 45 300 00 Outside agencies and advertising, 2,000 00 5,090 25 Taxes, Total, \$14.594 70 RECAPITULATION OF EXPENSES. Per Cent of Expenses. 21.13 \$50,143 73 Maintenance of way and buildings, Maintenance of motive power and cars, 63,990 93 26.97 Conducting transportation, 45.75 108.577 34 General expenses, including taxes, 6.15 14,594 70 100.00 **\$**237,306 70 Total operating expenses, and taxes, Operating expenses and taxes per mile of **\$**3,977 08 Operating expenses and taxes per train mile run, for trains earning revenue,—267,878 miles. 89 Proportion of operating expenses and taxes for Michigan, main line, 237,306 70 Total proportion of expenses for Michigan, **\$**237,306 70 Percentage of expenses to earnings, 94.91%.

**\$214 29** 

04

Net earnings per mile of road,

Net earnings per train mile

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Detroit Junction to Fort Gratiot, November, 1859.

MAIN LINE.	Miles 100t	hs, Miles, 100ths,
In Michigan, from Detroit Junction to Fort Gratiot,	59.37	as, amos, avvas,
Total length completed, Lotal length of road belonging to this company in Michigan,	59.37	59.37
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated, Aggregate length of tracks in Michigan belonging to this company, computed as single track,		25.85
Gauge of track, 4 feet 8½ inches.		
Total miles operated by the company,	Total Miles. 59.37	In Michigan. 59.37
Number of Bridges and Trestles in M	lichigan.	
Iron bridges, number of 6; aggregate le	ength feet,	792
Total,		792

#### Draw Bridges in Michigan.

How many on your line? One.

Where located, when built, and length of draw span:

Near Port Huron; built 1859; length of swing 123 feet.

Character of structure:

Swing draw.

Material of which constructed:

Iron and stone.

Height above water, and depth of water under bridge:

Sixteen feet from rail to water level; depth of water, 12 feet.

How swung by engine or hand power:

Hand power.

Approaches straight or curved:

Straight.

Do you require all trains to come to a full stop before crossing a draw, and how are they signaled?

Yes; by semaphores.

#### Crossings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Detroit, Grand Haven & Milwaukee Railroad, at Detroit.

Detroit & Bay City Railroad, at Detroit.

Chicago & Grand Trunk Railroad, near Port Huron.

28,532 28,532 480

1889.]

20001	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,, w			2. 00.		11 10 1	
Port Huron & Port Huron & S	North W South W	estern F estern F	Railro Railro	ad, at ad, at	Port Port	Huro Huro	n. n.	
What railroads of State, and when None.	e?						•	
At what crossing	s are in	terlocki	ng ai	nd de	railin	g swi	tches ir	operation?
None. Number of crossin	ngs of hi	ghwavs	at or	ade in	this	State		90
Number of crossis	ngs of h	ighways	at g	rade i	n this	State	at	
which there are	gates or	flagme	n, b-J			J ī	ن	4
Are your frogs an 174, Session La	u guaru wa 1883'	) Lerrie ord	ocked	as re	quire	u by	ACT	Yes.
How are they tree	ated? F	illed wit	th wo	od pla	nkin	g.	-	
			Statio			-		
Number of station	oo on wh	ala lina						12
Same in Michigan		oie iine,			-	-	-	12
	-, -				-	-	-	
		Ŀ	mplo	yés.				
Number persons	regularly	employ	ed o	n all :	roads	opera	ted	
by company, in	cluding	officials,	-	-	-	-	-	302
Same in Michigan Classify your emp	l, Lovés as	per foll	- owing	o list.	-	-	-	302
-	. •	per ion	Owni	5 1150.				Number.
Baggagemen,		-	-		-	-	-	5
Brakemen, Conductors,		-	-	-	-	-	-	16 11
Engineers,		-	-	-	-	-	-	$\overset{11}{21}$
Firemen,		-	-	-	-	-	-	19
Laborers, Shopmen,		-	-	-	- '	-		81
Shopmen,		-	-		-	-	-	$1 \\ 25$
Yardmen, Others,			-	-	-	-	-	123
		-	=	-	-		-	120
	I	REPAIRS	AND	RENEV	VALS.			
		Fencing	g in I	Michige	àn.			
FT '1		•						100.74
How many miles	or rencu	ng nave	you?	-	-	-	-	122.74
		Road I						
Number of track	sections	in Mich	igan,		_	_	_	13
		· (	,,	-	_	-	-	4.50
Average number	of men i	n each s	ection	n gang	ζ,	-	-	00 500
Number of new to Number of new to	ies put ir ies put ir	ı wnole . . track i	111110 ( n Mi	iuring chiger	tne	year,	-	28,532 28,532
Average number	of new ti	AS DAT W	ile o	froed	<b>-</b> , -	-		20,002 480

# ROLLING STOCK.

Average number of new ties per mile of road,

The company does not own any rolling stock. The stock used in working the line belongs to the Grand Trunk Railway Company of Canada.

Number of locomotives equipped with power brakes,  Number of passenger-train cars equipped with power brakes,  What patterns of power brakes have you in and cars with each? Westinghouse auton Are your freight cars being equipped with a by Act. No. 147, Session Laws of 1885?  What pattern or patterns have you adop coupler.  How are your passenger cars heated? Ba	use, and numeratic. Automatic of Yes. Ted for use	ouplers	
MILEAGE, TRAFFI	C, ETC.		
Train Mileage			
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains,	ear, .	-	145,232 80,154 42,492
Total mileage of trains earning revenue	9,	-	267,878
Passenger Traff	ic.		
Number of through passengers carried, Number of local passengers carried, Total number of passengers carried,	Numbers and Quantities. 29,262 179,339 208,601	Miles.	Rate. Dollars. Cents.
Total passenger mileage, or passengers carried Average distance traveled by each passenge		4,827,6	320 23.14
Average amount received from each passen Average rate of fare per mile for through p Average rate of fare per mile for local pass Average rate of fare per mile for all passen	engers,	- - -	\$0 62.00 02.50 02.75 02.66
Freight Traffic	<b>.</b>		
Number of tons of through freight carried, Number of tons of local freight carried,	Numbers and Quantities 93,460 221,179	. Miles.	Rate. Dollars. Cents.
Total tons of freight carried,	314,639		
Total mileage of through freight, Total mileage of local freight,		5,514,14 5,124,87	

Total freight mileage, or tons carried one mile,

Average ton haul for through freight, Average ton haul for local freight, Average ton haul for all freight, 10,639,010

59 23.17 33.81

1869.] CHICAGO, DEIROI	Ι, α (	JAIN	AJJA	G. 1.	JOM	01101	The CO.	200			
Average amount received for Average rate per ton per min Average rate per min Average r	le, red le, red le, red	ceive ceive	ed for ed for ed for	thre loca all	al frei freigh	ght, t,		0 32.000 00.875 01.021 00.945			
· Freight Forwarded at Michigan Stations.											
								Tons.			
Grain,								33,596			
Flour,	-	-	-	-	-	-	-	15,866			
Provisions (beef, pork, lard,	etc.)	-	-	-	-	-	-	4,393			
Animals,	000.	,	-		-		-	2,499			
Other agricultural products,	-		-	-		-	-	31,006			
Lumber and forest products	z F	-	-	-	-	-	-	36,810			
Coal,	,	-		-	-	-	-	18,992			
TO 1 1 1 1	-	-	•	-	-	-	-	258			
	~	-	-		-	-	-	333			
Salt,	-	-	-		-	-	-	2,314			
	<u></u>	-	-	-	-	-					
Railroad iron, iron and steel				-		-		40 500			
Pig and bloom iron,	-		-	-	-	-		526			
Other iron and castings,	-	-		-	-		-	626			
Stone, brick and sand,		-			•		-	4,274			
Manufactures,—articles ship							, -	20,076			
Merchandise and other artic	les no	ot er	ume	rated	abov	е, -	-	53,647			
Total forwarded,	-	-	-	-	-	-	-	225,256			
Tonnage of A	Intiala	Tro	ເສອນລາ	otod _	Fastin	a Roa	d				
Touruge of 2	1161664	, 170	порог	teu.	-Eliteri	E 160W					
·							Tons.	Per Cent.			
Grain,	-			-	-	-	35,920	11.42			
Flour,	-	-		-	-	-	15,894	5.05			
Provisions (beef, pork, lard,	etc.)	, -			-	-	4,429	1.41			
Animals,	-	-		-	-	-	2,822	.90			
Other agricultural products,		_		_			33,633	10.69			
Lumber and forest products	. وا	_				_	42,983	13.66			
Coal,		_				_	27,370	8.70			
Plaster, lime and cement,	_	_		_	_		926	.29			
Salt,	_			_			379				
D-41								.12			
					Ţ	-					
	_	_		-	-	-	3,293	$1.\overline{05}$			
Railroad iron, iron and steel	_	, -		-	-	-	3,293 40	$1.\overline{05}$ $.01$			
Railroad iron, iron and steel Pig and bloom iron,	_	, -		-		-	3,293 40 603	1.05 .01 .19			
Railroad iron, iron and steel Pig and bloom iron, Other iron and castings,	_	<b>,</b> -		-		-	3,293 40 603 955	1.05 .01 .19 .30			
Railroad iron, iron and steel Pig and bloom iron, Other iron and castings, Stone, brick and sand.	rails		noin	- - - t of :	nrodn	-	3,293 40 603	1.05 .01 .19			
Railroad iron, iron and steel Pig and bloom iron, Other iron and castings, Stone, brick and sand, Manufactures,—articles ship	rails		poin	- - <b>t</b> of j	produ	-	3,293 40 603 955 11,167	1.05 .01 .19 .30 3.55			
Railroad iron, iron and steel Pig and bloom iron, Other iron and castings, Stone, brick and sand, Manufactures,—articles ship tion,	rails	rom		_	-	- c-	3,293 40 603 955 11,167 45,737	1.05 .01 .19 .30 3.55			
Railroad iron, iron and steel Pig and bloom iron, Other iron and castings, Stone, brick and sand, Manufactures,—articles ship	rails	rom		_	-	- c-	3,293 40 603 955 11,167	1.05 .01 .19 .30 3.55			

# ADDITIONAL QUESTIONS.

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and

do you take their freights at the depot, or at the office of such express companies?

The Canadian Express Company. Fifty per cent of its gross receipts. Freight received at depot.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 59.37 miles belonging to this company.

#### Transportation Companies.

#### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Company's cars. No rental paid. The cars are maintained by the railway company. The Pullman company maintain the fittings and collect special fares.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

The following statement includes payments by the Michigan Air Line Railway Comyany. They cannot be given separately:

Adlanta Otana Carl & Tima Tima Adlanta Carmia	A9 95
Atlanta Stone, Coal & Lime Line, Atlanta, Georgia,	<b>\$</b> 3 37
Armour Refrigerator Line, Chicago, Illinois,	7 6 <b>4</b>
American Refrigerator Transit Co., St. Louis, Missouri,	9 47
Austell Refrigerator Co., Atlanta, Georgia,	1 34
Arms Palace Horse Car Co., Chicago, Illinois,	4 17
Consolidated Rolling Stock Co., Bridgeport, Connecticut,	35 55
Chicago, Boston & Liverpool Refrigerator Line, Boston, Mass.,	100 59
Columbus & Hocking, Coal & Iron Co., Columbus, Ohio,	81 16
Eagle Consolidated Refining Co., Cleveland, Ohio,	2 34
Fawcett & Co., J. W., Cleveland, Ohio,	2 97
Hammond & Co., G. H., Chicago, Illinois,	3 21
Iron Car Express Line, Philadelphia, Pennsylvania,	51
Merchants' Despatch Transportation Co., New York, N. Y.,	175 75
Michigan Salt Line Car Loan Co., East Saginaw, Mich.,	2 34
Morris & Co., Nelson, Chicago, Illinois,	82
National Car Co., St. Albans, Vermont,	2,762 12
New York Despatch Refrigerator, New York, N. Y.,	157 01
Ohio, Western Coal & Iron Co., Columbus, Ohio,	38 10

1889.] CHICAGO, DETRO	IT & CANADA G. T.	JUNCTION	R'Y CO.	211
Ohio Coal Exchange, Colum Southern Iron Car Line, A Somers Coal Co., Columbus Street Stable Car Line, Ch Swift Refrigerating Transp Chicago Refrigerating Car Union Tank Line, New Yor	tlanta, Georgia, s, Ohio, icago, Illinois, cortation Co., Chica Co., Lafayette, Ind	go, Illinois, iana		\$3 87 7 12 29 06 11 94 45 10 36 40 219 39
Total,			. \$	3,741 34
REPORT OF ACCIDENT	S FOR MICHIGAN I	OURING TH	E YEAR	1889.
	KILLED.			
June 17, Peter Reynolds train at highway crossing; July 7, Walter Green, sw	his own fault.			
	INJURED.			
July 12, Jacob Stresepky October 31, P. Donaghue	, trespasser, Detroi e, yard conductor, Fo	t. Struck ort Gratiot.	by train. Fell u	nder cars
while shunting.  TABULAR STATE	MENT OF ACCIDEN	NTS IN MIC		
TABULAR STATE	Killed.		Injured.	
TABULAR STATE	Killed.	NTS IN MIC	Injured.	
TABULAR STATE	Killed.	s. Passengers.	Injured. Employés,	Others.
Cause of Accident,  Pas  Collisions. Coupling cars. Deraiments. Falling from trains Frogs. Getting on and off trains Highway crossings. Miscellaneous. Overhead obstructions. Trespassers on trains. Trespassers on trains.  Trespassers on tracks.	Killed.  sengers. Employés. Other	s. Passengers.	Injured, Employés,	Others.
Cause of Accident,  Pass  Collisions Coupling cars Derailments Falling from trains Frogs Getting on and off trains Highway crossings Miscellaneous Overhead obstructions. Trespassers on trains Trespassers on tracks.  Total	Killed.  sengers. Employés. Other	s. Passengers.	Injured, Employés,	Others.
Cause of Accident,  Pass  Collisions Coupling cars Derailments Falling from trains Frogs Getting on and off trains Highway crossings Miscellaneous Overhead obstructions. Trespassers on trains Trespassers on tracks.  Total	of ACCIDENTS IN during the year, y accidental, lack of caution, car while intoxicated,	s. Passengers.	Injured, Employés,	Others.

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Employée.	Killed.	Injured.	Total.
Baggagemen			
Brakemen			
Conductors Engineers			
Firemen			
LaborersShopmen			
Yardmen Not classified above	1	1	
Total	1	1	

STATE OF MICHIGAN, COUNTY OF WAYNE, SS.

W. J. Spicer, General Manager, and James H. Muir, Accountant, of the Chicago, Detroit & Canada Grand Trunk Junction Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

W. J. SPICER. JAS. H. MUIR.

Subscribed and sworn to before me this 4th day of April, A. D. 1890.

A. B. Thomas, Notary Public.

#### ANNUAL REPORT

OF THE

# MICHIGAN AIR LINE RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed April 5, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, Sie JOSEPH HICKSON, Montreal, Quebec. Vice President, A. B. MAYNARD, Romeo, Mich. Secretary, ROBT. WRIGHT, Montreal, Quebec. Accountant, JAS. H. MUIR, Detroit, Mich. General Manager, W. J. SPICER, Detroit, Mich. Superintendent, A. B. ATWATER, Detroit, Mich. Chief Engineer, GEORGE MASSON, Detroit, Mich. Attorney, E. W. MEDDAUGH, Detroit, Mich.

#### DIRECTORS.

SIR JOSEPH HICKSON, Montreal, Quebec.
A. B. MAYNARD, Romeo, Mich.
M. A. McNaughton, Jackson, Mich.
W. J. Spicer, Detroit, Mich.
E. W. Meddaugh, Detroit, Mich.

Terms expire September, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—No	vemb	er 18	3, 187	5.			
Number of stockholders at date of last election,	-	-	-	-	-	-	7
Number of stockholders in Michigan at same date,							4
Amount of full paid stock held in Michigan at same	date	, -	-	-	-	-	<b>\$2,000</b>
Date of annual meeting of stockholders,—Last Wed	dnesd	ay o	f Sep	temb	er.		_
Fiscal year of company ends, December 31.							•
General offices of the company are located at Detro	it, Mi	ich.					

# GENERAL EXHIBIT.

m . 1	DEB	IT.	CREDI	
Total income, Total expenses, including taxes,	\$130,574	35	<b>\$152,64</b> 0	45
Net income,	-	-	22,066	10
Interest on funded debt,			<b>\$</b> 75, <b>4</b> 33	<b>34</b>
Balance for the year, deficit,	<b>\$</b> 53,36 <b>7</b>	24		
Contribution from Grand Trunk Railway towards interest liabilities,			<b>\$</b> 53,36 <b>7</b>	24
	<b>\$</b> 53,367	24	<b>\$</b> 53,367	24
ANALYSIS OF CAPITAL	STOCK.			
Amount authorized by charter or articles of a	ssociation,	-	<b>\$1</b> ,500,000	00
Par value of shares, \$100 No. of shares isued, 3,000 Amount paid in on common,	<b>\$300,000</b>	00		
Total amount paid in, as per books of the con	npany,		<b>\$</b> 300,000	00
Paid in per mile of road owned by company, —105.60 miles,	\$2,840	91		

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character, and Date of Issue,		When Due,	]	Interest,	8 ann
Class, Character, and Date of Issue	Class, Character, and Date of Issue.		Rate,	Payable	
First mortgage, January, 1882 (£310,000)		Jan., 1902	5%	London, I	England \$1,508,666 67
Total funded debt	· · · · · · · · · · · · · · · · · · ·				
	UNFUNI	DED DEBT.			
Unfunded debt,		-	-		None.
_	RECAPI	TULATION.			
Total funded debt,	-		-		<b>\$1,508,666</b> 67
Total debt liabilities,	-		-		<b>\$1,508,666 67</b>

.,	ĸ	F
_	Ŧ.	ė

Amount of debt lial Total amount of sto Stock and debt per	ock ar	ad de	ebt,	-	-		) mi]	les, -	\$14,286 1,808,666 17,127	67
	GEN	ERA	L BA	LAN(	E SHI	EET.—1	Dr.			
Construction account Equipment account		<u>-</u>	-		-		,202 ,000		<b>\$</b> 1,803,202	KQ
Other assets:  Debit balances fr  dividuals,	om c	o <b>mp</b> (	anies -	and i	in- -	<b>\$4</b> 3	3,298	34	43,298	
Total,	-	-	-	-	-	-	-	-	<b>\$1,846,500</b>	
	GEN	ERA	L BA	LAN	CE SH	EET.—	Cr.			
Capital stock, Funded debt,	- -	-	-	-	-	\$300 1,508	,000 8,666		<b>\$</b> 1,808,666	67
Unfunded debt: Interest unpaid, Vouchers and according	- ints,	-	-	-	- -	<b>\$</b> 37	7,716 117		<b>41</b> ,000,000	0.
									37,834	25
Total,	-		-	-	-	-	-	-	<b>\$1</b> ,846,500	92
	COST	г оғ	' ROA	D AN	D EQ	UIPME	NT.			
	F	urch	iased l	by pr	esent co	mpany.				
When purchased	. No	ovem	ber, 1	1875.						
Original cost to pre Amount expended a Amount expended a	since	purc	chase,	acco	unt of	const	ructi	on,	\$300,000 1,502,202 1,000	<b>58</b>
Total cost to d	ate of	i rep	ort,	-	_	_	_	-	<b>\$1,803,202</b>	58
Average cost per 105.6 miles,	mile -	o <b>f</b> :	road,	not	includ	ling si	iding -	<b>s</b> -	17,075	78
Proportion of cost	for M	lichi	gan,	-	-	-	-	-	1,803,202	58
CHARGES AN	ND CI	RED	ITS T	O PR	OPER	FY DU	RING	TH	E YEAR.	
			ж	AIN L	INE.					
Land, Ballasting, New buildings, Inter-locking signs	-		-	-	-	-	_	-	\$1,200 10,074 1,794 3,323	09 21
Total,	- .177,	- . <u>-</u>		_	-	-	_	-	\$16,392	
•									• -	

MICHIC	A NT	DAT	r.DO	תו	RETURNS	,
M 11 11 11 +	A.N	KAL	LKUZ	41)	RETURNS	٠.

[Dec. 31,

Total charges to property account as above,	<b>\$</b> 16,392 22	
Net addition to property account,		<b>\$</b> 16,392 22
. ANALYSIS OF EARN	INGS.	
PASSENGER EARNING	os.	
Main line: Local fares, Through fares,	\$31,914 16 148 72	
Total passenger fares,	<b>\$32,062</b> 88	
Express and baggage, Mails,	2,981 15 7,282 52	
Total passenger department earnings,		<b>\$42,326</b> 55
Proportion for Michigan, Per train mile, Per mile of road,	\$42,326 55 22 400 82	
FREIGHT EARNINGS	S.	
Main line: Local traffic, Through traffic,	\$98,693 90 11,620 00	
Total traffic,	\$110,313 90	
Total freight department earnings,		<b>\$</b> 110,313 90
Proportion for Michigan, Per train mile, Per mile of road,	\$110,313 90 59 1,044 63	
Total transportation earnings,		<b>\$</b> 152,640 <b>4</b> 5
Transportation earnings per mile of road, Transportation earnings per train mile,	\$1,445 45 81	
Total earnings from operation of road,		<b>\$</b> 152,640 45
Total earnings per mile of road, Total earnings per train mile,	<b>\$1,445 45</b> 81	
Proportion of taxable earnings for Michigan,		<b>\$152,640 45</b>
Total taxable earnings per mile of road in Michigan,	<b>\$1,44</b> 5 <b>4</b> 5	
Total income from all sources,		<b>\$152,640 45</b>
Proportion of income for Michigan,		152,640 45

# ANALYSIS OF EXPENSES.

				EAPER.				
Class 1			nce of	<sup>r</sup> Wày a	nd Bı	ıildings.		
Repairs of road way and	l trac	k,	_	-			<b>\$27,95</b> 8	<b>75</b>
Renewals of rails,	_	-	-		-		3,643	
TICHOWAID OF MOD, -	-	-	-	-	-		8,957	
Repairs of bridges, inclu	$\mathbf{uding}$	culve	erts a	and cat	tle gr	nards,	4,105	<b>34</b>
Repairs of fences, road	crossi	ngs, s	ind s	igns,	-		4,353	77
Repairs of buildings,		-					3,599	<b>58</b>
M-4-1							<b>AFO</b> 015	00
Total,		-	-	-	-	-	<b>\$</b> 52,617	92
Class 2.—	Maint	enanc	e of I	Motive F	ower ?	and Cars.		
Repairs of locomotives,	_	_					<b>\$2</b> ,817	11
Repairs of passenger car	rs.	_	_	-			2,324	
Repairs of freight cars,		_	_		_		5,173	
Total,	-	-	-	-	-		<b>\$</b> 10,314	95
CLAS	ss 3	Condu	cting	Trans	ortat	ion.		
Fuel for locomotives,				_			<b>\$12,698</b>	78
Water supply,	-	-	-		-		1,033	
Oil and waste.	-	-		-	-		405	
Oil and waste, Locomotive service,	_	_		-	•	•	16,785	
Passenger train service.	_	_	-		-		3,453	
Passenger train supplies	•	-	_				397	
Freight train service.	_	-	_	-		_	6,907	00
Freight train supplies,	-	_	_	_	_		795	
Telegraph expenses (ma	inten	ance	and o	operati	ng),		2,072	17
Damage and loss of freig	ght ar	nd bay	ggag	e,	-		657	96
Damages to property and	d catt	tle,	•		-	-	54	
Personal injuries, Agents and station servi	-	-	-	-	-	-	528	
Agents and station servi	ce,	-	_	-	-		14,212	
Station supplies,	-	-	-		-		2,902	89
Total,					_		<b>\$62,905</b>	17
2000,			•	-		•	<b>\$</b> 02,000	
	CLASS	4.—G	lenero	ıl Exper	1868.			
Salaries of the general o	fficers	s of th	ne co	mpany	,		\$100	
Salaries of clerks in gene			, -	-		-	300	
Law expenses, .	-	-	-	-			400	
	-	-		-			624	
Taxes,		-	-	-	-	=	3,312	.00
Total,	-	•	_	-	_		\$4,736	31
	A TOTAL	TT A /ET	TON	OB BY	DENIC	TTC)	,	
REC.	APIT	ULAT.	ION	OF EX	PENS	ES.		
						er ('ent of Expenses.		
Maintenance of way and	build	lings.	_	_	_	40.30	<b>\$</b> 52,617	92
Maintenance of motive p					_	7.90	10,314	
Conducting transportation	on,	-	_ ′	-	_	48.17	62,905	
General expenses, includ	ling t	axes,	_	-		3.63	4,736	
- ·	_	-				100.00	\$130,574	25
Total operating expe	SUBCE	anu t	GAUS,	-	-	100.00	<b>\$100,01</b>	UU

			(,
Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run,	<b>\$1,236</b>	50	•
for trains earning revenue,—187,446 miles, Proportion of operating expenses and taxes for		69	
Michigan:	130,574	35	
Total proportion of expenses for Michigan,		*	130,574 35
Percentage of expenses to earnings, 85.54%. Net earnings per mile of road, Net earnings per train mile,	208	96 12	
DESCRIPTION OF ROAL	Э.		
Date when the road was opened for use between	its pres	ent term	ini:
From Lenox to Jackson September 1, 1884.			
MAIN LINE.			
In Michigan, from Lenox to Jackson,		iles. 100ths. $105.60$	Miles. 100ths.
Total length completed,	-		105.60
Total length of road belonging to this company,	-		105.60
Total length of road belonging to this composition.  Aggregate length in Michigan of sidings, spur	•	105.60	
other tracks not above enumerated,		7.44	
Aggregate length of tracks in Michigan belong this company computed as single track,	ging to	-	113.04
Gauge of track, 4 feet 8½ inches.			
Total miles operated by the company,		tal Miles. 105.60	In Michigan. 105.60
Number of Bridges and Trestles in	Michigan	ı.	
Wooden bridges, number of 2 3; aggregation Wooden trestles, number of 2 78; aggregation with the state of 2 aggregation with 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2 aggregation with the state of 2	te lengt te lengt	h, feet, h, feet,	239 5,566
Total,		-	6,805
CrossingsRailroad and Hig	hway.		
What railroads cross your road at grade in this	State an	d at wh	at locality?
Detroit & Bay City railroad near Rochester. Detroit, Grand Haven & Milwaukee railroad a Flint & Pere Marquette railroad at Wixom. Toledo, Ann Arbor & North Michigan railroa			

1

Total miles required,

1009.j AHCH.	IGAN AIR	LINE RAL	LWAI	CO.		219
Detroit, Lansing & No Jackson, Lansing & Sa	orthern rail: aginaw railr	road at Sor oad near J	uth Lycackson	on.		
What railroads cross yo State, and where? No		ther over	or und	er yo	ur grad	e in this
At what crossings are in	terlocking a	nd deraili	ng swit	ches i	n opera	tion?
Jackson, Lansing & S	_		_		-	
at Jackson.	aginaw Di	ision of th	io mici	ngan (	Jenuai	I COLLI (MOCE
What pattern or pattern Company's.	ns have you	adopted?	Unio	n Sw	itch an	d Signal
Number of crossings of l	highways at	grade in t	this Sta	ite.		131
Number of crossings of l	highways at	grade in	this S	tate at		1.71
which there are gates						1
Number of crossings at	which the	re are ele	ctric or	auto-		
1						None.
Number of crossings of	highways o	ver or und	er railr	oad:		
Over,2. Under, -N	one, .		-			2
Number of highway brid	lges 18 feet	above trac	k, .	- <b>,</b> -		2
Number of highway brid	iges less the	n 18 feet	above	track,		None.
Have safety guards been	erected at	over-head	obstruc	ctions,		Yes.
Are your frog and guard 174, session laws 1883	rails block	ed as requ	uirea i	by act	i	
How are they treated?	r 168. Filled with	wood nlar	hina			
now are mey meased:		=	iking.			
	St	ations.				
Number of stations on w Same in Michigan,	•	<b>.</b> .	_			20 20
	En	ployés.				
N						
Number of persons regul	ariy empio	yeu on an	roads	орега	æu	176
by company, including Same in Michigan,	differents,		-	-	-	176
Dame in Michigan,	•		-	-	-	110
Classify your employés a	s per follo	wing list:				
Classify your comproject	por 20210					Number.
Baggagemen,	_		_	_		1
Brakemen,	-	-	-	-		$1\overline{4}$
Conductors,		-		-		9
Engineers,	<b>k</b> -				-	4
Firemen,	<b>.</b> .					4
Laborers,						92
Shopmen,						1
Yardmen,		-				1
Others,		-	-	-		<b>5</b> 0
	REPAIRS A	ND RENEW.	ALS.			
	Fencing	in Michigai	n.			
How many miles of fence	ing have yo	ou? .	-			214
Give the number of mile	es required	to complet	te fenc	e both	ı	•
sides of your track i			-			1

# Road Bed and Track.

Number of track sections in Michigan, Average length of sections,—miles,		14 7
Average number of men in each section gang,	_	3
Number of new ties put in whole line during the year,	_	37,991
Number of new ties put in track in Michigan,	-	37,991
Average number of new ties per mile of road,	-	361

# Bridges and Culverts.

Amount of trestle work replaced with earth d				
linear feet,		-	-	795
Timber culverts replaced during the year,	-	-	-	2
With iron pipe,—number,			2	
New bridges built during the year,			-	None.

# ROLLING STOCK.

					Number.	Present Estimated Value.		
Number of locomotives of 20 exclusive of tender,	) to 3 -	U tons	- weig	ght,	2	<b>\$14,000</b>	00	
Total,	-	-	-	-	• 2	<b>\$14,000</b>	00	
Number of passenger cars- official cars,	- 8 w	heel, i	includ	ing	1			
Number of express and bagg	age (	ars,	_	_	$\bar{1}$	3,000	00	
Number of box freight cars,	`. <b>-</b>		-	-	<b>}</b> 18 {	1,000		
Number of stock cars,			-	-	\ \frac{10}{10}	7,200		
Number of platform cars,	-	-	-		4	1,200	00	
Total,		-	_	_	24	\$26,400	00	

Number of locomotives equipped with power brakes,	1
Number of passenger train cars equipped with power brakes,	<b>2</b>
Number of freight cars equipped with power brakes,—None.	
What patterns of power brakes have you in use? Westinghouse auton	atic.

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? Yes.

What pattern or patterns have you adopted for use? McCrea's patent

coupler.

How are your passenger cars heated? Baker heater.

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Miles run by passenger trains during the yea Miles run by freight trains during the year, Miles run by mixed trains,	-	- - -	-	67,192 49,068 71,186
Total mileage of trains earning revenue.	_		_	187.446

# Passenger Traffic.

rassenger 1	rajjic.		
	Numbers and Quantities.	Miles.	Rate. Dols. Cents.
Number of through passengers carried, Number of local passengers carried,	55 83,3 <b>4</b> 3		
Total number of passengers carried, _	83,398		
Total passenger mileage, or passengers of mile,	earried one	1,106,959	
Average distance traveled by each passe Average amount received from each pas Average rate of fare per mile for throug Average rate of fare per mile for local p Average rate of fare per mile for all passes.	senger, h passengers, assengers,	13.9	\$0 38.05 02.50 02.90 02.89
Freight Tr	affic.		
Number of tons of through freight carried, Number of tons of local freight carried,		Miles.	Rate. Dollars. Cents.
Total tons of freight carried,	196,302		
Total mileage of through freight, Total mileage of local freight,		$1,\!420,\!0$ $9,\!002,\!2$	
Total freight mileage, or tons carried on	e mile,	10,422,3	02
Average ton haul for through freight, Average ton haul for local freight, Average ton haul for all freight,	 		06 49 53
Average amount received for each ton h Average rate per ton per mile, received Average rate per ton per mile, received Average rate per ton per mile, received	for through f for local freig	ht, _	\$0 56.2 00.80 01.10 01.00
Freight Forwarded at M	Michigan Statio	ns.	Tons.
Grain, Flour, Provisions (beef, pork, lard, etc.),			19,466 13,242 498
Animals, Other agricultural products, Lumber and forest products,	 		2,533 17,524 25,714
Coal, Plaster, lime and cement,		 	19,984 5
Salt, Petroleum, Railroad iron, iron and steel rails,			336 60 24

Other iron and castings, Stone, brick and sand, Manufactures,—articles shipp Merchandise and other article						- - - -	293 5,170 6,597 34,845
Total forwarded,	-	-	-	-	-	-	146,291
Tonnage of Arts	icles I	[ransp	orted	–Enti	re Roc	ıd.	
						Tons.	Per Cent.
Grain,	_			_	_	20,373	10.38
Flour,	_	_				<b>13</b> ,558	6.91
Provisions (beef, pork, lard, et	te.).	_	_	_		609	.31
Animals,	. , ,		_		_	2,636	1.34
Other agricultural products,						17,891	9.11
Lumber and forest products,			-	=		33,147	16.88
Coal,	-		•			25,919	13.20
Plaster, lime and cement,	-				-	460	.23
Salt,	-	•	•		-	879	.45
Petroleum.					••	229	.12
Railroad iron, iron and steel i	ails	•	-	-	-	64	.03
Pig and bloom iron,		-			-	96	.05
Other iron and castings,	-		-	-	•	1,017	.52
Stone, brick and sand,		-			•	5,651	2.88
Manufactures,—articles shipp	ad fr	am no	sint of	nrod	- no-	0,001	2.00
tion,	ou m	ли рс	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. prou	uc-	10,690	5.45
Merchandise and other article	e not	- OD 117	na <del>ra</del> ta	d aho		63,083	32.14
morenancise and omer armore	io HOP	onun	nerane	นสมบ	ve,	00,000	04.14

#### ADDITIONAL QUESTIONS.

196,302

100.00

Total tons carried.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company. Terms, \$2,500 per annum for a minimum weight of 3,000 pounds daily carried entire length of road; excess weight at same rate per 100 pounds; freight received at depot.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 1,056 miles belonging to this company.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

The information cannot be given separate from the Chicago, Detroit & Canada Grand Trunk Junction Railway, and is therefore embraced in the report for that railway.

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

					KI	LLED.					
Killed,	-	-	-	-	-	-	-	-	-	-	None.
					INJ	URED.					
July 1 Augus	1, Ho st 8, J	mer ( oseph	Freen Shet	, pass ello, t	enger trespa	, Lene sser, l	ox. Lenox	Gettin c. Fo	ng off ound i	train in	n motion. on track.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.		Injured.			
Cause of Accident.	Passengers.	Employés.	Others.	Passengers,	Employés.	Others.	
Collisions							
oupling cars							
<b>ЛИГЕЦЦИО</b> Ц (8	l <b></b>						
alling from trains							
rogs							
letting on and off trains	<b></b>	'		1			
lighway crossings							
Discensions							
respassers on track							
·		1					
Total	-			1			

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	-	_	
Number of persons injured during the year,	-	_	<u>,</u>	<b>2</b>
Number of casualties purely accidental,	-	-	-	
Number resulting from lack of caution, careles	senes	, or r	nis-	
conduct,	-	<i>-</i>	-	1
Persons killed or injured while intoxicated,	-	-	_	
Trespassers and tramps killed or injured,	-	_	-	1
Suicides,	-	-	-	•

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen			
Brakemen Conductors Engineers			
Firemen Laborers			
Shopmen Yardmen			
Not classified above.			
Total			

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

W. J. Spicer, General Manager, and James H. Muir, Accountant, of the Michigan Air Line Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

W. J. SPICER. JAS. H. MUIR.

Subscribed and sworn to before me this 4th day of April, A. D. 1890.

A. B. THOMAS, Notary Public.

#### ANNUAL REPORT

OF THE

# CINCINNATI, WABASH & MICHIGAN RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed April 7, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, D. J. MACKEY, Evansville, Indiana.

Vice President, J. H. WADE, Cleveland, Ohio.

Secretary and Treasurer, W. S. JONES, Cleveland, Ohio.

Auditor, LOUIS B. COOK, Elkhart, Indiana.

General Manager, NORMAN BECKLEY, Elkhart, Indiana.

General Superintendent, O. W. LAMPORT, Wabash, Indiana.

Superintendent of Telegraph, L. J. BUSSARD, Wabash, Indiana.

Cashier, EDGAR S. COOK, Elkhart, Indiana.

General Passenger Agent, EDGAR H. BECKLEY, Elkhart, Indiana.

General Freight Agent, DARWIN F. COE, Elkhart, Indiana.

Attorneys, COWGILL, SHIRELY & COWGILL, Wabash, Indiana.

#### DIRECTORS.

D. J. MACKEY, Evansville, Indiana.
WM. HILEMAN, Evansville, Indiana.
C. P. LELAND, Cleveland, Ohio.
W. S. JONES, Cleveland, Ohio.
J. H. WADE, Cleveland, Ohio.
J. H. WADE, Jr., Cleveland, Ohio.
JOHN NEWELL, Cleveland, Ohio.
C. COWGILL, Wabash, Indiana.
NORMAN BECKLEY, Elkhart, Indiana.
C. C. BALDWIN, Evansville, Indiana.

Terms expire April, 1890.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Reorganization, April 14, 1890.	
Number of stockholders at date of last election,	40
Number of stockholders in Michigan at same date,	3
Amount of full paid stock held in Michigan at same date, \$4,000	00
Date of annual meeting of stockholders,—Second Wednesday in April.	
Fiscal year of company ends December 31.	
General offices of the company are located at Elkhart, Indiana.	

# GENERAL EXHIBIT.

•	Dı	BIT.	CREDIT.
Total income,		-	<b>\$</b> 53 <b>4</b> ,062 59
Total expenses, including taxes,	<b>\$</b> 377,613	93	
Net income,		-	156,448 66
Interest on funded debt, 591 06	<b>\$4</b> 5,815	67	
Profit and loss, Balance applicable to dividends,		-	\$1 20 110,634 21
Balance for the year,	-	-	\$110,634 21
Balance (profit and loss) last year,		-	389,680 75
Balance forward to next year,	<b>\$</b> 500,314	96	
	\$500,314	96	<b>\$</b> 500,314 96
ANALYSIS OF CAPITAL	STOCK.		
Amount authorized by charter or articles of a	ssociation,	No	fixed Amount.
Par value of shares, 5100 00 Number of shares issued, 20,433 Amount paid in on common, 5	<b>\$</b> 2,0 <b>44</b> ,058	76	
Total amount paid in as per books of the	company,	-	<b>\$</b> 2,044,058 <b>76</b>
Paid in per mile of road owned by company, —164.4 miles,	<b>\$</b> 12,434	05	

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest,	When Due,	Where Payable,	Amount Outstanding.
First mortgage. Additional notes issued for interest on above	5% 5%	1912 Due and unpaid_	Cleveland, O. Cleveland, O.	\$812,879 <b>20</b> 78,998 71
Total funded debt		•		\$886,878 00

# UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
For construction	•	
For renewals		
For miscellaneous		\$83,273 80
Total unfunded debt	·	\$88,273 30

# RECAPITULATION.

Total funded debt, Total unfunded debt,	-	-	-	-	-	-	<b>\$</b> 886,373 83,273	00 30
Total debt liabilities,		-	-	-	-		<b>\$</b> 969,646	30
Amount of debt liabilities per mile of road,—164.4 miles,						5,898	09	
Total amount of stock an	d de	bt,	-	-	-	-	<b>\$</b> 3,013,705	06
Stock and debt per mile of	of ros	ıd,—	164.4	miles	, -	-	18,331	<b>54</b>
						_		

Stock and debt per mile of road,—164.4 miles,	18,331 54
GENERAL BALANCE SHEET.—Dr.	
Construction and equipment account, _ \$3,429,226 69	
Other investments, specifying same: Rushville extension, 14,489 33 Interstate dispatch, 200 00 Warsaw Implement Co., 1,281 38	<b>\$</b> 3,445,197 <b>4</b> 0
Cash items:       \$34,091 20         Bills receivable,       1,300 00         Due from agents,       21,558 54	56,949 74

							[	<b></b> ,
Other assets: Materials and su Debit balances i	ipplies, .	enies	and	-	<b>\$</b> 53,56 <b>7</b>	59		
individuals,		-	- -	-	33,223	42	<b>\$</b> 86,791	01
Total,		-	-	-			<b>\$3,588,938</b>	<u>15</u>
	GENERA	L BAI	ANCI	E SH	EET.—Cr.			
O:4-1 -41-					<b>60 044 0</b> 50	70		
Capital stock,		-	-	-	<b>\$2,044,058</b>	10		
Funded debt,		-	-	-	886,373	10		
Benton Harbor su	bsidies,	-	-	-	74,915	13		
Jonesboro extension	on, -	-	-	-	3	w		
Unfunded debt: Other liabilities Including Decer Profit and loss or	nber vouch	iers an	d pay	roll	S, _	_	\$3,005,349 83,273 500,314	30
I TONG MICE TOSS OF	moonie acc	ounus,		-		-	. 000,011	
Total,		-	-	-		-	<b>\$</b> 3,588,938	15
Total Cost for Constr	COST OF					hes B	uilt by Compo	ny.
Total expended for	r construct	ion an	d equ	ipme	nt, _	_	<b>\$</b> 3,429,226	
Average cost per r miles,	1110 OI TOBO	1, not 1 -	nciua -	ung s		9 <b>4.4</b> -	20,857	70
Proportion of cost	for Michi	gan,	-	-		-	696,647	18
CHARGES A	ND CREDI	or er	PRO	PERT	Y DURING	TH	E YEAR.	
		MA	IN LI	NE.	-			
Extensions and ne	aorihia w						\$26,040	11
Real estate,		-	-	-	-	-	2,358	20
New buildings,		-	-	-		-	4,619	
			-	-	-	-	421	
Telegraph line, Machinery and to	مآم	•	-	•	- •	-	1,959	
New locomotives,	018.		-	-		-	15,602	
New locomotives,		-	-	-		• -	46,340	75
New cars,		-	-	-		-	40,540	10
Total charges	, -	-	-	-		-	<b>\$</b> 97,342	22
Total charges to p	roperty ac	count	as abo	ove,	- •	-	97,342	22
Net addition	to propert	y accou	unt,	-		-	<b>\$</b> 97,342	22
	ANA	Lysis	OF I	CARN	INGS.			
	PA	ABBENG	er k	ARNIN	GS.			
Main line and bra	nches:							
Local fares, Through fares,		-	• •	-	<b>\$2</b> 00,766 5,705	32 78		
Total passeng	ger fares,	-	-	-	\$206,472	10	•	

`	Ω	•	
z	Z	М	

2000.]	******		w 1.1.			• • • •		
Express and baggage, Mails,		• - -		 -	\$11,173 12,421	61 32		
Total passenger depa	rtme	nt ea	rning	s,		-	<b>\$</b> 230,067	03
Proportion for Michiga	ın,	-	-	-	<b>\$4</b> 6,7 <b>4</b> 0	96 74		
Per train mile, Per mile of road,	-	-	-	-	1,399			
	FR	EIGH	r eaf	NINGS.				
Main line and branches:								
Local troffic	_	_	_	_	\$245,173	<b>4</b> 5		
Through traffic,	-	-	-	-	51,048			
Total traffic,	-			•	\$296,222	33		
Other sources,	-	-	• -	-	7,773	23		
Total freight departs	nent	earni	ngs,	-		-	<b>\$</b> 303, <b>9</b> 95	<b>56</b>
Proportion for Michiga	an.				\$61,760	61		
Per train mile.	<del></del> -,	-	-	_	· 1	20		
Per train mile, Per mile of road,	-	-	-	-	1,849	12		
Total transportation	earn	ings,		-		-	<b>\$</b> 534,062	<del>59</del>
Transportation earnings Transportation earnings	per i per t	nile o rain r	f roa nile,	d, -	<b>\$</b> 3,248	55 00		
Total earnings from	oper	ation	of ro	oad,			534,062	<b>59</b>
Total earnings per mile of Total earnings per train			-	- -	<b>\$</b> 3,248	55 00		
Proportion of taxable ear Total taxable earnings	ming	s for	Mich	igan,		-	108,501	57
Michigan,	-				. \$3,248	<b>5</b> 5		
Total income from a	ll sou	irces,		-			<b>\$</b> 534,062	59
Proportion of income for	r Mic	higai	a,	-			108,501	57
A	ANAL	ysis	OF I	EXPEN	SES.			,
CLASS 1	–Mai	ntenar	ice of	Way a	nd Buildin	gs.		
Repairs of road way and	trac	k.					<b>\$41,701</b>	59
1D 7 A 11	. <b>ura</b> c		-	-	-	-	21,000	
Renewals of ties	-	-	_	-		-	17,755	
Repairs of bridges, inclu	ding	culve	rts a	nd cat	tle guards		15,465	91
Repairs of fences, road c						, - -	3,217	
Repairs of buildings,		-		-		-	7,007	
Total,	_	_	_	_		_	\$106,148	57

230	AICHIG.	AN R	AILF	CAO	RETU	JRNS.		. [Dec	. 31,
Class 2.—Maintenance of Motive Power and Cars.									
Repairs of locomotive	e e							<b>\$24,195</b>	95
Repairs of passenger		-	-	-	-	-	-	11,740	NR.
Repairs of freight car		-	-	-	-	-	-	13,367	20
repairs or freight car	. <del></del>	-	-	-	•	-	-	10,001	<b>J</b> U
Total,	_	-	-	-	_		_	<b>\$49,303</b>	33
c	LASS 3.—	Cond	ucting	Tran	sporte	ition.			
								<b>9</b> 59 460	97
Fuel for locomotives,	-	•	-	-	-	-	-	<b>\$</b> 53,460	
Water supply,	-	-	-	-	-	-	-	1,598	
OH and waste	_	-	-	-	-	-	-	3,976	
Locomotive service,	-	-	-	-	-	•	-	34,691	
Passenger train servi	œ,	-	-	-	-		-	9,239	
Passenger train suppl	ies,	-	-	-	-	-	-	669	
Freight train service,		-	-	-	-		-	18,670	
Freight train supplies	3, .	-	_	-	-	_	_	322	71
Telegraph expenses (	mainten	ance	and o	operat	ing),	_	-	<b>6,44</b> 8	77
Damage and loss of f	reight a	nd b	8228	zė.	-	_	_	497	
Damages to property	and cat	tle.	006	o-,	_			548	
				-	-	-	-		50
Personal injuries, Agents and station se	rvino	-	-	-	-	-	-	25,473	
0.1.4.				-	-	-	-	1,069	90
Station supplies,	-	-	-	-	-	-	-	1,000	ฮฮ
Total,	-	-	-	_	-	-	-	<b>\$</b> 156,675	90
	Ctar	s 4.—	Gener	al Exp	enses.				
Salaries of the genera	l officer	s of t	the co	- mpan		-	-	<b>\$</b> 18,196	
Salaries of clerks in g	eneral (	эшсе	з,	-		-	-	10,032	
Law expenses,		-	-	-	-	-	-	4,041	
Stationery and printing	ng,	-	_	-	-	-	-	5,078	
Outside agencies and	adverti	sing,		-	_	-	-	8,684	
Contingencies, _	-	-		_	-	_	-	<b>3</b> ,937	58
Taxes,	-	-	-	-	-	-	-	15,514	77
Total,	_	_	_	_	_	-	-	<b>\$65,485</b>	93
	RECAPIT	רא.דוזי	TON	OF EX	PENS	TES.			
	MBCAI I	CLIA	LION	Or Da	LI LIND				
						Per cen Expen			
Maintenance of way a	nd hnil	dinas				28.		<b>\$106,148</b>	57
				-	-	13.0		49,303	
Maintenance of motiv	e power	аши	Cars,	-	-				
Conducting transport			-	-	-	41.4		156,675	
General expenses, inc	luding 1	taxes,	-	-	-	17.3	<b>)4</b>	65,485	93
Total operating e	xpenses	and	taxes	3,	-	100.0	00	<b>\$</b> 377,612	83
Operating expenses as	and tax	es p	er tr	ain m	ile	2,296	92		
run, for trains earning Proportion of operation	ng reven	ue,—	-530,0	) <b>29 m</b> i]	les,	71 9	24		
Michigan:			•		,	76 717 1	12		
Main line,	=	-	-	-		76,717			
Total proportion of ex	penses	for M	<b>I</b> ichi	gan,	-	-	-	<b>\$</b> 76,71 <b>7</b>	13

Percentage of expenses to earnings,—70.70.

Net earnings per mile of road,

Net earnings per train mile,

29.52

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Anderson, Indiana, to Goshen, Indiana, May 21, 1876. From Goshen, Indiana, to Benton Harbor, Michigan, November 13, 1882.

### MAIN LINE.

In Michigan, from State Line to Benton Harbor, In Indiana, from State Line, to Anderson,	Miles, 100ths, Miles, 100ths, 33.40 131.00
Total length completed,	164.40
Total length of road belonging to this company, Total length of road belonging to this company in Michigan,	164.40 33.40
Aggregate length in Michigan, of sidings, spurs, and other tracks not above enumerated,	7.60 .
Aggregate length of tracks in Michigan belonging to this company, computed as single track,	41.00
Gauge of track, 4 feet $8\frac{1}{2}$ inches.	Total Miles, In Michigan,
Total miles operated by the company,	164.40 33.40
Number of Bridges and Trestles in Mich	igan.
Wooden bridges, number of . 1; aggregate length wooden trestles, number of, . 2; aggregate length	
Total,	615
${\it Crossings-Rail road\ and\ Highway}.$	
What railroads cross your road at grade in this State, a None.  What railroads cross your road either over or unde State, and where?  Over,—Michigan Central Railroad at Niles, Main I Over,—Michigan Central Railroad at Niles, South I	r your grade in this dine. Bend Division.
Number of crossings of highways at grade in this Number of crossings of highways at grade in this	State, 43
at which there are gates or flagmen,	_ 2
Number of crossings at which there are electrical automatic signals,  What pattern or patterns in use?  Number of crossings of highways over or under railro	None. None.
Over,—1. Under,—1, Number of highway bridges 18 feet above track,	- 2 - 1

	•											
232		M	CHIGA	LN R	AILRO	AD	RET	URN	S.		[Dec	s. 31,
Number of h Have safety Are your fro	guard	ls be	en ere	cted	at over	r-hea	ıd ol	ostru	ıctio	ns,	-	1 Yes.
174, session	n law	u gu anf	1883.	נט פנו	DOMOU	aus I	<del>o</del> qui	ıou	Dy (	BIC U	-	Yes.
How are the				repoi	rt.	-	-		-	-	•	L OB.
					Station	8.						
Number of st	tation	s on	whole	line.								40
Same in Mic			-			-	-		-	-		8
Employés.												
Number of operated b	person	ons	regula	rly	emplo	yed	on	all	ros	ds		410
Same in Mic	higan		- -						_	-		41
	•								-	-		_
Classify yo	our er	nplo	yes as	per 1	tollow	ng I	ıst:					
											No	mber.
Baggagemen		-	-	-	-	-	-		-			5
Brakemen, Conductors,	-		-	-	-	-	-		-	-		18
Conductors,		-	-	-		-	-		-	-		12
Engineers,	-	-	-	-	-	-	-		-	-		19
Firemen,	-	-	-	-	-	-	-		-	-		19 124
Laborers, Shopmen	-	-	-	-	-	-	-		-	-		95
Shopmen, Yardmen,	-	:	r	-	-	-	-		•	-		6
Others,	_		-	-			-		-	-		112
			מישוט	ATDQ	AND I	PNF	TOTATS	2				
			•	_				3.				
					g in M	шщ	jun.					
How many n	ailes o	of fe	ncing l	ave	you?	-	-		-	-		66
Give the nun sides of yo needed. All fenced.	nberc ur tra	of m	iles rec in Mic	quire higa	ed to n, and	com the	plete coun	fer ties	ice in w	both hich		
			1	Road	Bed an	d Tro	ıck.					
Number of the Average length Average num Number of numbe	gth of aber of new ti- new ti-	sectof mees presented to be section of the section	tions,— en in e ut in w ut in tı	-mile ach s hole rack	es, - section line d in Mic	urinį higa	g, . g the n, .	- - yea. -	- - <b>r</b> , -	- - - -	6 3 36,554 7,255 217	
			j	Bridg	es and	Culve	erts.					
Amount of —linear fe	et.			_			_	duri -	ing -	year,		275
New bridges	built	dur	ing the	yea	r,—nu	mbe	r,		-	-		3

Location.	Kind,	Material.	Month Built.	Feet in Length.
Kikhart. Goshen Wabash	Howe truss Howe truss Howe truss	Wood Wood Wood	•	120 80 600
Total				800

### ROLLING STOCK.

	***		<b>u</b>		•		•
						Number.	Present Estimated Value.
Number of locomotive weight, exclusive of		ore t	han	30 to	ns	16	<b>\$</b> 80,000 00
Number of locomotive		to 30	- tons	weigh	ıt.	10	<b>\$</b> 60,000 00
exclusive of tender,		-	-	-	-	7	21,000 00
Total, -	-	-	-	-	-	23	<b>\$101,000 00</b>
Number of passenger	cars—{	3-whee	el, in	cludi	ng		
official cars,	-	-	-	-	-	• 16	44,800 00
Number of express an	d bagga	ge car	rs, in	cludi	ng	•	
4 combination cars,	-	-	-	-	-	8	16,000 00
Number of box freigh	t cars,	-	-	-	-	<b>485</b>	169,750 00
Number of stock cars		-	-	-	-	18	5,400 00
Number of platform a	nd coal	cars,	-	_	_	203	40,600 00
Number of conductors	' way ca	rs,	-	_	_	11	5,500 00
Other cars,		_	_	_	_	3	3,000 00
(1 tool car, 1 snow	plow, 1 p	oile dr	iver.	)			•
Total, -	. <u>-</u>	-	-	-	-	744	<b>\$</b> 385,050 00
Number of locomoti	ves equi	ipped	with	pow	er		
brakes,			_	-	_	23	
Number of passenger-	train ca	ars ea	uipp	ed wi	$\mathbf{th}$		
power brakes,		_ ^		-	_	24	
Number of freight c	ars equi	beggi	with	DOW	er		
brakes,		-	_	_	_	None.	
What patterns of pow	er brake	s have	- vor	in p			er of locomo-
What patterns of pow tives and cars with	h each?	All.	Ea	mes'	vacu	um brake	except one
locomotive equippe	d with A	meric	an h	rake.			, <b>0200P</b> 0 020
Are your freight cars	heing e	minne	yd wi	th an	tomat	ic couple	beriuper as ar
by Act No. 147, See	gion La	wa of	1885	Ye	g g	no coupio	is as required
What pattern or patte	rna hev	יוסע פ	adon.	ted fo	r ngoʻ	Blocker	•
How are your passe	norar co	ra ha	ated (	M	Elro	v car has	tino system
steam supplied from	locomo	tive.	avou.		Jan II O	, our no	oung byown,

### MILEAGE, TRAFFIC, ETC.

### Train Mileage.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	309,762 220,267
Total mileage of trains earning revenue, 30	-	-	530,029

### Passenger Traffic.

	- wooding or	a.j			
		Num	bers		Rate.
		and Qua	ntities.	Miles.	Dollars. Cents.
Number of through passens	zers carried,	1,7	720		
Number of local passengers	carried.	_ 340,6	344		
	,				
Total number of passer	agers carried	l, 342,3	364		
Total passenger mileage, or j	naggan garg a	arried one	mila	8,560,	040
A manage distance transled b	hassemsers o	arriou one		0,000,	25
Average distance traveled b	y each base	enger, .	-		
Average amount received fr	om each pa	ssenger,	-	-	<b>\$</b> 0 60.30
Average rate of fare per mi	le for throu	gh passen	gers,	-	_ 02.00
Average rate of fare per mi	le for local	passenger	18, _	_	. 02.40
Average rate of fare per mi	le for all pa	ssengers.	_	_	_ 02.40
	Freight T			_	
			nore.		Rate.
		Numl and Quan	tities.	Miles.	Dollars. Cents.
Number of tons of through	freight carr				
Number of tons of local fre	ight carried	330 3	03		
Trumber of with or local file	Pur cerried	, 000,00			
Total tons of freight co	arried,	374,99	27		
Total mileage of through fr	rojaht		,	7,186,49	<b>07</b>
Total mileage of through in	reignt,		- ,	4 7 4 E 9	71 40
Total mileage of local freig	nt, _		_ 14	4,745,3	12
Total freight mileage,	or tons carri	ied one m	ile, $\frac{}{2}$	1.931.8	<del></del> 39
			,		
Average ton haul for throu	gh freight,	_	-		65
Average ton haul for local	freight,		_	4	<b>44.</b> 6
Average ton haul for all fro	aight.	_	_		58.5
•	•	L 1	_		
Average amount received f				, -,	_ 00.78
Average rate per ton per mi	te teceived i	or throug	n freig	nt,	_ 00.71
Average rate per ton per m	ile, received	for local	freigh	t,	. 01.66
Average rate per ton per m	ile, received	l for all fi	reight,	_	_ 01.35
	•		_		
rreight.	Forwarded at	<i>m</i> wnigan	siution.	ō.	Tons.
Grain,					1,544
			-	-	6,116
Flour,	1 -1-1		-	-•	
Provisions (beef, pork, lard	ı, etc.), <sub>-</sub>		-	-	655
Animals,			-	-	153
Other agricultural products	3,		-	-	2,520
Lumber and forest product	8		_	-	71,284
Coal,	•				65
			-	_	69
Plaster, lime and cement, Salt,			-	-	1,423
			-	-	
Petroleum,			-	-	17
Pig and bloom iron,				-	3,039
Other iron and castings,			-	-	126
Stone, brick and sand,			_	_	35
Manufactures,—articles shi	pped from r	point of p	roducti	on,	1,151
Merchandise and other arti				,	13,367
U			,	-	
Total forwarded,					101,564
Total forwarded, _			-	-	101,004

### Tonnage of Articles Transported.—Entire Road.

	Tons.	Per Cent.
Grain,	31,643	8.439
Flour,	15,258	4.068
Provisions (beef, pork, lard, etc.),	6,219	1.659
Animals.	11,521	3.073
Other agricultural products,	9,305	2.215
Lumber and forest products,	126,949	33.326
Coal,	22,529	6.006
Plaster, lime and cement,	6,160	1.634
Salt,	2,178	.580
Petroleum,	9,731	2.595
Railroad iron, iron and steel rails,	1,727	.460
Pig and bloom iron,	3,879	1.033
Other iron and castings,	14,913	3.977
Ores,	43	.011
Stone, brick and sand,	22,947	6.140
Manufactures,—articles shipped from poi	nt	
of production.	29,606	7.896
	ot	,,,,,
enumerated above,	60,319	16.888
Total tons carried,	374,927	100.000

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

United States Express Company; contract \$11,000 per year; daily limit 4,000 pounds, through freight 65 cents per hundred pounds, for through freight in excess of that amount; freight delivered at our stations.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

165 miles wire owned by Western Union Telegraph Company.

287 miles wire owned by Cincinnati, Wabash & Michigan Railway Co.

### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

### KILLED.

October 3, Philip Gemberling, brakeman, Benton Harbor. Caught foot in frog, by his own carelessness, in violation of the positive rules of this company.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

	Killed.		Injured.				
Passengers.	Employés.	Others.	Passengers.	Employés.	Others		
				1			
				l			
		<b></b> .	.]		l		
				<b></b>			
				1			
<del></del> ,							
			.				
	!	!					
1				_			
		i	1	1			

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,						1
Number of persons injured during the year,	•	-	-	-	-	$ar{2}$
Number of casualties purely accidental,	-	-	-	-	-	
Number resulting from lack of caution, careles	enes	s. or	misc	ondr	ıct.	2
Persons killed or injured while intoxicated,	_	-,			_	
Trespassers and tramps killed or injured,	_	_	_	_	-	_
Suicides.	_		_		_	

### CLASSIFICATION OF EMPLOYES.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.	
Baggagemen.				
Brakemen	1	2		
Ingineers.				
firemenaborers				
Shopmen				
Not classified above				
		l		
Total.	1	2		

STATE OF INDIANA, COUNTY OF ELEHART, Ss.

Norman Beckley, General Manager, and Louis B. Cooke, Auditor, of the Cincinnati, Wabash & Michigan Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, NORMAN BECKLEY. Gen'l M'g'r. LOUIS B. COOKE, Auditor.

Subscribed and sworn to before me this 4th day of April, A. D. 1890. Charles W. Fish,

Commissioner of Deeds for Michigan in Indiana.

### ANNUAL REPORT

### OF THE

### MILWAUKEE, LAKE SHORE & WESTERN RAILWAY COMPANY.

For the Year Ending December 31, 1889.

[Filed April 7, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, F. W. RHINELANDER, New York.

Asst. to the President F. W. RHINELANDER, Jr., Milwaukee, Wis.

Vice President, JOSEPH R. BUSK, New York.

Secretary, ALFRED L. CARY, Milwaukee, Wis.

Auditor, W. R. HANCOCK, Milwaukee, Wis.

Treasurer, GORDON NORRIE, New York.

General Manager, H. F. WHITCOMB, Milwaukee, Wis.

General Superintendent, GEO. F. BIDWELL, Milwaukee, Wis.

Division Superintendents, W. H. VANDEGRIFT, Kaukauna, Wis.

Chief Engineer, E. H. RUMMELE, Milwaukee, Wis.

Superintendent of Telegraph, H. C. REED, Milwaukee, Wis.

Asst. Treasurer, A. D. ALLIBONE, Milwaukee, Wis.

General Passenger Agent, ERNEST VLIET, Milwaukee, Wis.

General Freight Agent, C. L. WELLINGTON, Milwaukee, Wis.

General Solicitor, ALFRED L. CARY, Milwaukee, Wis.

### DIRECTORS.

F. F. THOMPSON, New York. GORDON NORRIE, New York. JOSEPH R. BUSK, New York. CHAS. LULING, Manitowoc, Wis.

Terms expire June, 1890.

F. W. RHINELANDER, New York. Wm. H. REESE, New York. W. K. HINMAN, New York. D. PARRISH, Philadelphia, Pa. SAMUEL S. SANDS, New York.

Terms expire June, 1891.

356

THEO. M. DAVIS, Newport, R. I. CHAS. DANA, New York.

JOSEPH VILAS, Manitowoo, Wis.

JAMES H. MEAD, Sheboygan, Wis.

Terms expire June, 1892.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

\*When chartered or articles of association filed.

Number of stockholders at date of last election,

Date of annual meeting of stockholders,— Second Wednesday in June.

Fiscal year of company ends,—December 31.

General offices of the company are located at Milwaukee, Wis.

### REMARKS.

\*The articles of association of the Vieux Desert and Lake Superior Railroad Company, were filed in the office of the Secretary of State of the State of Michigan, September 28, 1881. This company was afterward consolidated with the Milwaukee, Lake Shore and Western Railway Company, a corporation of the State of Wisconsin, under articles filed in the office of said Secretary of State, on the 4th day of May 1883. The name of the consolidated company being Milwaukee, Lake Shore and Western Railway Company.

### GENERAL EXHIBIT.

m . 1 *					DEBIT.	CRE	
Total income,	-	-			_ =	<b>\$</b> 3,474,669	29
Total expenses, including taxes,	-	-		<b>\$</b> 1,95 <b>4,2</b> 03	97		
Net income,	-	-			-	<b>\$1,520,463</b>	32
Interest on funded debt,	<b>\$</b> 671	<b>,499</b>	39	)		•	
Rentals of buildings, tracks, etc.,	31	,763	57	•			
Bonds redeemed,		,000					
				\$758,262	96		
Balance applicable to dividends,	-	-			-	276,200	<b>36</b>
Dividends declared, 7%, preferred,	<b>\$</b> 350	.000	00	)			
Dividends declared, 7%, common,							
				\$490,000	00		
Balance for the year,				<b>4100,</b> 000	00	\$272,200	26
Balance (profit and loss) last year		-			-	194,927	
Items not included in above as fol					-	104,021	U4
	HOWS	•				15 000	ഹ
Sales of lands, town lots, etc.,	-	-		- 100 - 100	-:	15,293	95
Balance forward to next year,	-	-		<b>\$4</b> 82, <b>4</b> 22	11		
				\$482,422	11	\$482,422	11

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter Par value of shares,	or	<b>\$</b> 100 0	0	association,	-	<b>\$</b> 10,000,000 <b>00</b>
Number of shares issued,	_	70,00	0			
Amount paid in on common,	_	-		\$2,000,000	00	•
Amount paid in on preferred,	_	-	-	5,000,000	00	
Total amount paid in, as per b Paid in per mile of road owned by company,—650.50 miles,	ed.	s of the	cc	ompany, \$10,760		<b>\$7</b> ,000,000 <b>00</b>

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.
Consolidated first mortgage.  Michigan Division, first mortgage Ashland Division, first mortgage Hurley & Ontonagon river branches, 1st m't'g. Equipment of 1882 Equipment of 1885 Convertible debentures of 1907.  Extension and improvement S. F. mortgage. Income bonds	6 6	May and November_ January and July March and Sept April and October January and July January and Aug February and Aug February and Aug May and November_	New York New York New York New York New York New York	\$5,000,000 1,281,000 1,000,000 175,000 90,000 500,000 1,142,000 1,608,000
Total funded debt	!			\$11,298,000

### UNFUNDED DEBT.

For what Incurred.	Is the Same to be Funded, or How Liquidated.	Amount.
For construction For equipment. For real estate For renewals For misocilaneous. For current balances	Current vouchers, to be paid in cash December pay rolls Unpaid labor uncalled for,	\$128,778 34 87,881 25 5,558 74
Total unfunded debt		\$222,208 38

	H	ECAPIT	ULAT	ION.				
Total funded debt, Total unfunded debt,	-	-	-	-	-	-	\$11,296,000 222,208	
Total debt liabilities,		-	-	-	-	-	<b>\$</b> 11,518,208	33
Amount of debt liabilities	per	mile c	of roa	d,—(	650.5	miles,	17,706	69
Total amount of stock	and	l debt,		-	-	-	\$18,518,208	33
Stock and debt per mile o	fros	.d.—65	0.5 m	iles.		-	28.467	64

### GENERAL BALANCE SHEET.—Dr.

Construction and Other investments:	l equi	pment	acco	ount,	-			<b>\$</b> 19,198,446	92
Sundry stocks at Cash items:		nds,	-	-	-	-	-	222,000	00
Cash,	_	_	_	_	_	\$238,89	90 98	}	
Bills receivable,	_	_	_	-	_		00 00		
Due from agents	,	_	_	_	_		37 35		
Other assets: Materials and su Debit balances	pplies	s, compa	nies	and	-	\$203,75	26 67	325,758	33
individuals,	-		_	_	_	168,3	16 39	)	
·								372,043	06
Total,	-	-	-	-	-	<u>.</u> .		\$20,118,248	
	GEN	ERAL	BAI	ANCE	SH	EETCr	•		
Capital stock,						<b>\$7,000,0</b> 0	M M	•	
Funded debt,	-	-	-	-	-				
	-	- d	-	-	-	11,296,00 217,61	JU UU	•	
Accrued interest no Dividends payable	JU YOU	aue,	ñ	-	-	217,01	N 01		
Dividends payable	reb. 1	19, 10	<i>5</i> ∪,		-	315,00	<i>1</i> 0 00		
Redeemed bonds,	-	-	-	-	-	585,00	<i>I</i> U UU		077
Unfunded debt: Vouchers and acc	counts	ı				128,77	73 34	<b>\$19,413,617</b>	87
Other liabilities:	жини.	')	-	-	-	120,1	0 01		
December pay ro	J1					87,88	1 25		
Unpaid labor, un	an,	for	-	-	-		3 74		
Chpaid labor, un	Санси	101,	-	-	-		/U 13	222,208	33
Profit and loss or is	ncome	accou	ınts,	-	-			482,422	11
Total,	-	-	-	-	-			<b>\$20,118,248</b>	31
	COST	OF R	OAD	AND	EQU	IPMENT	•		
	P	urchas	ed by	Presen	t Co	mpany.			
When purchased,-	-Dece	mber :	11, 1	<b>875.</b>					
Original cost to pre			-		and	equinma	nt	\$6,361,224	97
Amount expended	gince •	menha	ra or	cconn	t of	Constant	ion	9,940,717	
Amount expended	gince	nurch	~~~, a	CCOUR	t of	Adminma	nt	2,896,504	Ng.
Total cost to date of	f repo	ret Purom	100, B	оссии	IO OI	edarhme	110,	19,198,446	<b>Q</b> 0
Average cost per				not :	- nol	ding aid	in ~		JA
-650.52 miles,	шпе	OI L	UNU	HOF I	псти	orna Bro	шRя,		16
Deportion of an 4	_ 	- - L:	_ 1	01 00			-	29,512	
Proportion of cost	TOL MI	cniga	11,1	.v1.28	mile	, .	-	2,989,021	90
31							•		

### CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

### MAIN LINE.

Extensions and new sidings, Right of way, station grounds, New buildings, New Fences, Machinery and tools, New bridges, New cars,	- - -	-	\$561,510 27,206 36,463 9,965 5,536 15,420 313,797	13 39 58 54 32	• <b>\$</b> 969,899	98
1	BRANCHE	28.				
New side tracks, main line,	- - -	-	\$13,639 14,187 5,556 15,788 54,373 47,044 3,918 2,265	17 13 06 89 37 88 30		
and yards,	-	-			199,342	13
Total charges to property a	ccount,	-	· · -	-	<b>\$</b> 1,169,242	11
Property sold and credited,	-	-		-	3,600	00
Net addition to property acc	ount,	-		-	<b>\$</b> 1,165,642	11
Less balance of premium on sec	urities,	-		-	17,920	00
Total to cost of road and eq	uipmen	t,		-	\$1,147,722	11

# ANALYSIS OF EARNINGS.

## PASSENGER EARNINGS.

Roads.	Local Fares.	Through Fares.	Through Passenger Fares. Fares.	Express and Baggage.	Maile.	Total.	Proportion for Michigan.	Proportion Per Mile.	Per Mile, of Road.
Main line and branches	8406,940 59		\$85,642 81 \$552,562 90	\$45,787 44	*45,787 44 \$48,486 96 \$646,817 29 \$108,922 54	\$646,817 29	\$108,922 54	\$0.80.2	\$1,026 08
Leased or Proprietary Roads.									,
St. Paul, Eastern Grand Trunk Railway	16,812 65	1,604 10	18,416 75	4,354 64	2,765 99	25,787 88		8.03	445 48
Chicago & Northwestern Railway	6,562 17	1,158 01	7,720 18	270 00	492 00	8,482 18		87.8	2,356 16
Total passenger department earnings	\$490,815 41	\$88,404.42	\$490,315 41 \$58,404 42 \$578,719 58 \$50,562 08 \$51,754 64 \$861,086 85 \$108,922 54	\$50,562 08	\$51,754 94	\$681,086 85	\$108,922 54	\$0 78.6	\$98 <b>4</b> 51

### FREIGHT EARNINGS.

Roads.	Local Traffic.	Local Throngh Total Traffic. Traffic.	Total Traffic.	Other Sources.	Total.	Proportion for Michigan.	Proportion Per Irain Mile.	Per Mile of Road.
Main line and branches.	\$1,579,982 85	\$1,579,982 85 \$1,159,541 52 \$2,789,524 87	2,789,524 87	\$384 50	\$334 50 \$2,739,868 87 \$440,206 40	\$440,208 40	98 T	\$7 976 13
Leased or Proprietary Rouds.								
St. Paul, Eastern (frand Trunk Railway	14,895 54	14,895 54 12,275 48	27,170 97		27,170 97		88	487 58
Chicago & Northwestern	10,247 90	16,853 30	98,600 60			28,600 60	1 80	7,390 58
Total freight department earnings.	\$1,605,125 69	\$1,606,125 69 \$1,188,170 25 \$2,796,295 94	£2,798,295 94		\$334 50 \$2,798,680 44 \$440,206 40	\$440,206 40	\$1.83	\$ <b>7</b> 880 <b>*7</b>

Total transportation ear. Transportation ear. Total earnings Total earnings per Total earnings per Proportion of taxab	nings nings from mile train	per per ope of re	mile of train oration oad,	of ros mile, of r	- oad, -	-	- \$5,023	<b>45</b>	\$3,474,667 \$3,474,667	29
Total taxable earni Michigan, Income other than	ngs p	er i	nile c	of roa	d in	. \$	5,372	51	15,293	
Total income f					_	_	_	_	<b>\$</b> 3,489,961	22
Proportion of inco					-	-	_	_	546,001	<b>58</b>
•		ANA	LYSI	S OF	EXPE	INSE	<b>3</b> .			
C-	1						-			
			_	nce of	w ay a	na B	uilding	8.		
Repairs of road wa	y and	trac		-	-	•-	-	-	\$299,737	
Renewals of rails,		-	-	-	-	-	-	-	<b>56,44</b> 3	
Renewals of ties,	<i>:</i> .	<u>-</u> .	٠,		<b>,</b>		٠,	-	57,12 <del>4</del>	81
Repairs of bridges,	ınçlu	ding	z culve	erts a	nd cat	tle g	uards,	-	31,348	76
Repairs of fences,	road c	ross	ings,	and s	ıgns,	-	-	-	11,204	13
Repairs of building	<b>38</b> ,	-	-	-	-	-	-	-	25,656	06
Total,	_	-	_	-	-	-	_	_	<b>\$4</b> 81,515	27
<b>0</b>	0	16	<b>4</b>	7/	Fa48 1	D	3 0			
CLA	88 2	on ann	tenanc	e of M	lotive 1	Power	and C	ars.		
Repairs of locomot	ives.		_	_	_	_	_	_	<b>\$76,919</b>	51
Repairs of passeng	er car	8.	_	_	-	_	-	-	25,894	22
Repairs of freight	cars.	~,	-	-	-	-	-	-	113,158	71
zeopuis or moight	our b,		-	-	-	-	-	-		
Total, _	-	-	-	-	-	-	-	-	<b>\$</b> 215,972	44
	CLAS	s 3.–	-Condi	uctina	Trans	porta	tion.			
		~ <b></b>	00			po. <b></b> .				
Fuel for locomotive	-	-	-	-	-	-	-	-	<b>\$</b> 282,046	
Water supply,	-	-		-	-	-	-	-	12,504	22
Oil and waste,	_	-	-	-	-	-	-	-	16,327	
Locomotive service			-	-	-	_	-	-	220,779	28
Passenger train ser	vice,	-	-	-	-	-	-	-	47,509	39
Passenger train sup	pplies	,	-	-	-	_	-	-	6,409	22
Freight train servi	ce,	_	-	-	-	-	-	-	160,758	
Freight train suppl	lies,	-	-	-	_	_	-	-	4,169	
Mileage of freight	cars,	_	-	-	-	-	-	_	4,001	
Telegraph expenses						ing),	-	-	36,445	
Damage and loss of	f freig	ght a	nd ba	ggage	, _	_	-	-	4,739	37
Damages to proper	ty and	d cat	tle,	_	-	-	-	_	6,915	90
Personal injuries,	_	_	-	-	-	-	_	-	9,838	91
Agents and station	servi	ъ,	-	_	-	_	-	_	119,041	
Station supplies,	-	_	_	_	-	_	_	_	12,347	
Total,	-	_	-	-	-	-	_	-	\$943,835	

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### CLASS 4.—General Expenses.

Salaries of the g	eneral o	fficers	of the	com	pany,	_	_	_	<b>\$48,900</b>	00
Salaries of clerk	s in gen	eral of	fices,			_	_	_	32,219	
Law expenses,	-	_		_	_	_	_	_	17,976	
Insurance,	_	_	_		_	_		_	11,556	
Stationery and p	printing.	_	_	_	_	_	_	_	17,176	
Outside agencies		vertisi	nø.	_	_	_	-	-	35,082	
Contingencies,				-	-	-	-	-	40,733	
Taxes,	-	-	-	-	-	-	-	-	109,236	
<b></b>	•	-	-	-		-	-	٠.	100,200	
Total,		-	-	-	-	-	-		<b>\$</b> 312,881	22
	RE	CAPIT	ULATI	on of	EXPE	nses	•			
Maintanance of		hu:14:					Per Cent of Expenses.		<b>4</b> 491 515	07

mamienance of way and buildings,	24.04	<b>\$401,010</b>	41
Maintenance of motive power and cars,	11.05	215,972	44
Conducting transportation,	48.30	943,835	04
General expenses, including taxes,	16.01	312,881	
Total operating expenses, and taxes,	100.00	\$1,954,203	97
Operating expenses and taxes per mile of road.	<b>\$</b> 2.825 07		

1000,		-	-	-	42,020	01
Operating expenses	and taxes	per tra	ain mi	ile		
run, for trains ea	rning reve	nue,—	-2,392,	,775		
miles, _		-	_	_		81.7
Proportion of opera	ting expen	ses an	d tax	es		
for Michigan, ma	in line,	-	_	_	279,543	<b>34</b>
<del>-</del> ·				_		

Total proportion of expenses for Michigan, Percentage of expenses to earnings, 56.24%.	-	-	-	<b>\$</b> 279,543 34
Net earnings per mile of road,		<b>\$</b> 2,197	93 63 54	

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Lake Shore Junction to Ashland, 1885.
From Two Rivers Junction to Two Rivers, 1874.
From Hortonville Junction to Oshkosh, 1880.
From Eland Junction to Wausau, 1880.
From Antigo Junction to end of track, 1883.
From Monico Junction to Rhinelander, 1882.
From Rhinelander to Lac Du Flambeau, 1888.
From Lac Du Flambeau to Van Buskirk, 1889.
From Van Buskirk to Hurley, 1888.
Hurley Branch, 1886.
Ontonagon River Branch, 1887.
From Oconto to Clintonville, 1884.
Wolf & Wisconsin Rivers Branch, 1888.

MAIN LINE.		
In Michigan, from State Line to Montreal River, In Wisconsin, from Lake Shore Junction to State	Miles, 100th 66.89	s, Müles, 100ths,
Line,	279.87	
In Wisconsin, from Montreal River to Ashland, In Wisconsin, from Monico to Hurley,	39.62 88.13	
Total length completed,		474.51
BRANCHES.		
In Wisconsin, from Two Rivers Junction to Two		
Rivers,	6.35	
In Wisconsin, from Hortonville to Oshkosh,	23.10	
In Wisconsin, from Eland Junction to Wausau,	23.20	
In Wisconsin, from Antigo Junction to end of track,	11.92	
In Wisconsin, from Pratt Junction to end of track,	22.39	
In Wisconsin, from Hurley Junction to end of track, *In Wisconsin, from spurs and branches to mines and	16.91	
mills,	37.75	
In Michigan, from Watersmeet to end of track, In Michigan, from spurs and branches to mines and	11.97	
mills,	22.42	
Total length of branches owned by company,	-	176.01
Total length of branches owned by company in Mich-	04.00	
igan,	34.39	#F0 F0
Total length of road belonging to this company,	-	650.52
Lotal length of road belonging to this company	101 00	
in Michigan,	101.28	
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,		25.71
Aggregate length of tracks in Michigan belong-		20.11
ing to this company, computed as single track,		126.99
Gauge of track, 4 feet 8½ inches.	-	120.00
Proprietary or Leased Roads Operated by this	Company.	
Name, description and length of each:		
	otal Miles.	In Michigan.
C. & N. W. R'y Milwaukee to Lake Shore Junction,	3.60	
St. P. E. G. T. R'y Clintonville to Oconto,	56.00	
St. P. E. G. T. R'y Spurs,	1.78	
Total,	61.38	
Total miles operated by the company,	691.75	101.28

<sup>\*20.15</sup> miles of spurs in Wisconsin owned by this company, are leased to other parties engaged in manufacturing.

152.67

Gogebic county, 152.67.

Total miles required,

power brakes,

Number of passenger-train cars equipped with

### Road Bed and Track.

Number of track sections in Michigan, Average length of sections—miles, Average number of men in each section gang, Number of new ties put in whole line during the year, Number of new ties put in track in Michigan, Average number of new ties per mile of road,	- - -	- - -	14 6 8 324,788 22,560 509
New rails put in track: Steel (6,482 tons), 57.93 miles. Total miles of track laid with steel rails,	_	_	670.77
Timber culverts replaced during the year, New bridges built during the year,	-	_	None. None.

### Bridges and Culverts. -

Amount of trestle work replaced with earth during the year, —linear feet,—None in Michigan.

New bridges built during the year,—number None.

### ROLLING STOCK.

	Number.	Present Estimated Value.
Number of locomotives of more than 30 tons		
weight, exclusive of tender,	86	\$613,000 00
Number of locomotives of 20 to 30 tons		<b>70.000.00</b>
weight, exclusive of tender,	11	58,200 00
Total,	97	<b>\$</b> 671,200 00
Number of passenger cars—12 wheel, includ-		
ing official cars,	1	11,000 00
Number of passenger cars—8 wheel, including		11,000 00
official cars,	46	185,000 00
Number of express and baggage cars,	16	40,000 00
Number of box freight cars,	1,990	909,600 00
Number of stock cars,	55	21,000 00
Number of platform cars,	1,055	340,000 00
Number of charcoal cars,	<b>23</b>	8,500 <b>00</b>
Number of ore cars,	850	290,000 00
Number of coal cars,—gondolas,	300	120,000 00
Number of conductors' way cars,	43	30,000 00
Number of refrigerator cars,	11	6,500 00
Other cars as follows:		•
Steam excavators,	5	30,000 00
Tool cars, 2; wrecking cars, 4; pile drivers		•
with cars,2; boarding cars, 2,	10	14,000 00
Total,	4,405	\$2,005,600 00
Number of locomotives equipped with power brakes,	r . 7	7

61

Number of freight cars equipped with power

1889.1

306 What patterns of power brakes have you in use, and number of locomo-

tives and cars with each? Westinghouse air brake.

Are your freight cars being equipped with automatic couplers as required by Act. No. 147, Session Laws of 1885? Yes.

What pattern or patterns have you adopted for use? Blocker coupler. How are your passenger cars heated? Part by stoves and part by steam.

### MILEAGE, TRAFFIC, ETC.

### Train Mileage.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	1	-	-	866,057 1,526,718
Total mileage of trains earning revenue,	-	-	-	2,392,775

### Passenger Traffic.

Number of through passengers carried, Number of local passengers carried,	and Quantities. 30,437 516,838	Miles.	Dolla	rs. Cents.
Total number of passengers carried,	547,275			
Total passenger mileage, or passengers carr. Average distance traveled by each passen	ied one mile, ger,	22,273,	484 40.7	
Average amount received from each passes Average rate of fare per mile for through Average rate of fare per mile for local pa Average rate of fare per mile for all passes	passengers, ssengers,	- - -	<b>\$1</b> - -	07.000 02.546 02.637 02.673

### Freight Traffic.

Number of tons of through freight carried Number of tons of local freight carried,	l, -	Numbers and Quantiti 1,022,18 1,823,35	3	Miles.	Rate. Dollars. Cents.
Total tons of freight carried,	-	2,845,53	5		
Total mileage of through freight,  Total mileage of local freight,	- -			)60,08 )8 <b>4,</b> 89	
Total freight mileage, or tons carried of	on	e mile,	264,0	)44,94	18
Average ton haul for through freight, Average ton haul for local freight.	-	-	-	157 56	-

Average amount received for each ton haul,	<b>\$0</b> 98.000
Average rate per ton per mile, received for through freight,	00.737
Average rate per ton per mile, received for local freight,	01.539
Average rate per ton per mile, received for all freight,	01.057

92.7

Average ton haul for all freight,

### Freight Forwarded at Michigan Stations.

								Tons.
Grain,	_	-	-	-	_	_	-	<b>&gt;</b> 87
Flour,	_	_	_	_	_	_	_	20
Provisions (beef, pork, lard,	etc.	),	-		-	_	-	169
Animals,	_	_	_		_	_	_	225
Other agricultural products,		_		_		_	_	101
Lumber and forest products		_	-	_	_	_	_	83,016
Coal.	, _						_	46
Plaster, lime and cement,		-	_	_	_		_	11
Salt	-	-	-	-	-	•	-	4
Railroad iron, iron and steel	rail	a.	-	-	-	-	-	40
Other iron and castings,		~,			-	-	-	160
Ores.	-	-	•	-	-	-	-	1,394,951
Stone, brick and sand,	•	-	-	-	-	-	-	737
Manufactures,—articles ship	nad f	From 1	ooint	of pro	dnoti	-	· <b>-</b>	1,087
Manuactures,—arucies snip	pou !	uom j	DOTH!	or pro	ra accoun	л,	-	
Merchandise and other artic	168 11	ot em	пшега	tea ar	юve,	-	-	1,713
Total forwarded.	_	_	_	_	_	_	_	1.482.367
								, , ,

### Tonnage of Articles Transported.—Entire Road.

						Tons.	Per Cent.
Grain,	-	_	_	_	_	23,239	.81
Flour,	-	_	_	_	_	12,784	.44
Provisions (beef, pork, lard, e	etc.),		_	_	-	15,255	.53
Animals,	- '	_	_	_	_	5,778	.20
Other agricultural products,	_	_	_	_	_	5,430	.19
Lumber and forest products,	_	_	_	_		753,787	26.50
Coal,	_	_	_	_	_	67,498	2.38
Plaster, lime and cement,	_	_		_	_	6,822	.25
Salt,	_	_	_	_	_	1,727	.06
Railroad iron, iron and steel	rails.	_	_	_		342	.01
Pig and bloom iron,	_ ′	_	_	_	_	6,622	.23
Other iron and castings,	_		_	_	_	9,586	.33
Ores,	_	_	_	-	_	1,668,688	58.64
Stone, brick and sand,	_	_	_	_	_	65,488	2.30
Manufactures,—articles shipp	ed fro	m po	oint of	prod	luc-	,	
tion, _ '	_	_	_	•	_	76,162	2.68
Merchandise and other article	es not	enur	nerate	d ab	ove,	126,327	4.45
Total tons carried,	-	_	_	_	_	2,845,535	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The United States Express Company do a general express business on this road. They make their own rates and pay this company a stipulated amount monthly and a percentage of the earnings over a specified amount

for the facilities furnished them. Freight is delivered into this company's cars at the depots.

251

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Miles of poles 625, miles of wire 1,107, Western Union Telegraph Company; miles of wire 780, M., L. S. & W. R'y Co. Total miles of wire 1,887.

### Transportation Companies.

### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Company, New York, run over the line of this road. We pay mileage on number of miles run by its cars.

### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

### KILLED.

March 24, John Husby, laborer at lumber camp, Thayer Siding. Found dead on side track; do not know cause.

March 27, Herman Mititz, laborer, Bessemer. Found dead in yard; supposed to have been struck by train.

October 12, Anthony Kelly, engineer, Interior. Engine run off switch; scalded by steam.

October 29, D. McCarthy, brakeman, Watersmeet. Fell between cars while making coupling.

November 27, Sully Neley, woodsman, Watersmeet. Found on track with head cut off.

### INJURED.

February 5, Charles M. Beattie, roadmaster, Marenisco. Collision, right foot and back injured.

March 9, James Kessel, section laborer, Ironwood. Taking hand car

from track; leg hurt.

March 11, Julius Hunt, section laborer, Bessemer. Drawing spike with bar; slight injury.

April 3, William Miller, brakeman, Watersmeet. Struck by wire cable

unloading gravel train; leg injured.

April 24, Thomas H. Walch, brakeman, Ironwood. Coupling; shoulder bruised.

May 6, Thomas Walker, trespasser, south of Bessemer. Found side of track with head cut; not serious.

June 17, Charles Anderson, section laborer, Marenisco. Taking hand car from track; slightly injured.

June 22, John Moak, brakeman, Wakefield. Coupling; fingers of left hand crushed.

June 27, James Wasley, trespasser, near Bessemer. Struck by engine and thrown from track; not seriously injured.

June 30, Pasco Douriano, laborer, Ironwood. Stepping from ore car to

another while in motion; badly bruised.

July 29, H. D. Miner, hotel keeper, Wakefield. Stepped on car to see party and in getting off after train started fell between platform and car; wrist broken.

August 12, Frank Williams, laborer, Watersmeet. Struck by derrick of

wrecking car; two fingers of left hand cut off.

August 22, Adolph Hetland, passenger, Ramsay. Jumped from passenger train while train was in motion: head cut, intoxicated.

September 5, Nelson M. Winton, brakeman, Watersmeet. Conpling; not

seriously injured.

September 8, Peter Zelinski, laborer, Watersmeet. Caught fingers in cogs of derrick; two fingers crushed.

October 12, John O. Hanlin, fireman, Interior. Jumped from engine

when it run off switch; slightly injured.

October 12, Charles Manning, switchman, Ironwood. attempted to step on foot board of engine; foot cut off.

October 21, Frank Lafren, laborer, Watersmeet. Unloading logs from car; arm broken.

October 21, J. W. Madigan, brakeman, Ironwood. Coupling; first two fingers of left hand crushed.

October 28, William Manthly, fireman, Ironwood. Collision account

misplaced switch; jumped and sprained ankle.

October 31, Nelson Winton, brakeman, Bessemer. Coupling fell in front of engine; arm cut off.

November 1, John Smith, laborer, Marenisco. Rail fell on foot; big toe

crushed.

November 4, Peter Howe, merchant, Ed. Sampson, mine captain, Ironwood. Driving buggy over crossing, struck by switching train, buggy broken, horse ran away; men thrown out but not seriously injured.

November 7, Andrew Ericson, laborer, Watersmeet. Stepped from one

car to another on moving train, fell between cars; right foot cut off.

November 8, Frank Zellinar, woodsman, Watersmeet. Climbed between two freight cars standing at station, caught foot between draw-bars; foot bruised.

November 15, J. T. Grogen, fireman, Bessemer. Slipped off engine; ankle sprained.

November 18, James McMath, fireman, Watersmeet. Jumped from

engine; face and arm bruised.

November 19, Peter Johnson, woodsman, one-half mile south of Ironwood. Found along side of track, head injured, eye knocked out; supposed injury was caused by some unknown person, and man placed near track.

November 21, Lawrence Kittell, engineer, Ironwood. Switching cars at ore shute which projects over track, engine run into shute; engineer bruised

and wrist broken.

December 20, Andrew Wait, laborer, Marenisco. Taking hand car from track; leg bruised.

### 1889.]

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Cause of Accident.		Killed.		Injured.			
Calab of Acceptations	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	
ollisions					2		
oupling cars.		1		'	5		
erailmentsalling from trains		1			1		
alling from trains				1	, .		
rogsetting on and off trains					1		
ighway crossings.					·		
iscellaneous				l	18		
verhead obstructions	!		<b></b>		<b>-</b>		
respassers on trains				1		1	
respassers on tracks			8				
	-			ļ			
Total		2	8	1	28		

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_		5
Number of persons injured during the year,	_	•	31
Number of casualties purely accidental,	_		8
Number resulting from lack of caution, carelessness	s, or		
misconduct,	-		20
Persons killed or injured while intoxicated,	_		1
Trespassers and tramps killed or injured,	_		7
Suicides.	_		_

### CLASSIFICATION OF EMPLOYES.

### KILLED OB INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen Brakemen Conductors	1	6	7
Conductors Regineers Firemen Laborers Shoomen	1 1	1 4 10	2 4 11
Not classified above		. 1	1
Total	8	23	26

STATE OF WISCONSIN, COUNTY OF MILWAUKEE, SS.

H. F. Whitcomb, General Manager, and W. R. Hancock, Auditor, of the Milwaukee, Lake Shore & Western Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

H. F. WHITCOMB. W. R. HANCOCK.

Subscribed and sworn to before me this 4th day of April, A. D. 1890. C. S. Pierce,

Commissioner for Michigan in Wisconsin.

### ANNUAL REPORT

OF THE

### HANCOCK & CALUMET RAILROAD COMPANY, ...

For the Year Ending December 31, 1889.

[Filed April 14, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WM. N. CROMWELL, New York City.

Secretary and Treasurer, ALFRED JAAL/TZKI, New York City.

Auditor and Cashier, C. M. HOAR, Hancock, Mich.

General Manager and Superintendent, C. A. WRIGHT, Hancock, Mich.

General Passenger and Freight Agent, R. H. BRELSFORD, Hancock, Mich.

Attorney, J. W. STONE, Houghton, Mich.

### DIRECTORS.

WM. N. CROMWELL, New York City.
MÉRRIT E. HAVILAND, New York City.
A. S. DAME, New York City.
A. S. BIGELOW, Boston, Mass.
JOHN DANIELL, Opechee, Mich.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Jan	uary	14, 1	1885. ·				
Number of stockholders at date of last election,	-	-	-	-	-	-	11
Number of stockholders in Michigan at same date,	-	-	-	-	-	-	1
Amount of full paid stock held in Michigan at same	date,	-	-	-	-	- \$1	.00 00
Date of annual meeting of stockholders,—Second Tu	abaeı	y in	July				
Fiscal year of company ends, December 31.							
General offices of the company are located at Hanco	ck, M	[ich.					

### GENERAL EXHIBIT.

m . I ·				1	DEB	T.	CREDI	
Total income, Total expenses, including taxes	,	-	-	<b>\$7</b> 8,0	44	03	<b>\$</b> 13 <b>4</b> ,657	44
Net income,		-	-			_	56,613	41
Interest on funded debt, Interest on unfunded debt,		5,000 1,308						
Balance for the year, Balance (profit and loss) last y Balance forward to next year,	ear,	-	- - -	<b>\$</b> 97,0	<b>4</b> 0	88	\$40,304 56,736	
				<b>\$</b> 97,0	<b>4</b> 0	88	\$97,040	88
ANALYSIS	of	CAP	ITAL	STOCK.				
Amount authorized by charter	or ar	ticles	of a	ssociatio	n,	-	<b>\$</b> 350,000	00
Par value of shares, No. of shares isued, Amount paid in on common,	-		100 500 -	<b>\$</b> 350,0	00	00		
Total amount paid in, as per bo	oks (	of the	e con	npany,		-	<b>\$</b> 350,000	00
Paid in per mile of road owned be —20.36 miles,	<b>y c</b> o -	mpai -	ı <b>y,</b> -	<b>\$17,1</b>	90	57 —		_

### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.
First mortgage	6%	June 1, 1901	Boston	<b>\$250,000 00</b>
Total funded debt				<b>\$250,000 00</b>

### UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
For Construction	7	\$112,952 7
For Kaninment	•	
POF MUSCHUSDAOUS		
For Current Balances		10,489 81
	**************************************	
Total Unfunded Debt		\$128,442 5

### RECAPITULATION.

Total funded debt, Total unfunded de		-	-	-	- -	-	- -	\$250,000 123,442	00 57
Total debt lia	bilities,	-	_	_	-	-	-	\$373,442	57
Amount of debt lie	abilities	per m	ile of	road,-	<b>–20</b> .	36 miles	ι,	18,341	97
Total amount	of stocl	k and d	lebt,	-	-	-	-	<b>\$</b> 723,442	57
Stock and debt per	r mile o	of road,	20.3	6 mil	es,		-	35,532	54
	GENE	RAL B	ALAN	CE SI	ныел	Dr.			
Construction accor	ınt, _	_	_	-	_	-	-	<b>\$</b> 757, <b>4</b> 90	50
Cash items:									
Cash, Due from agents	 3, -	-	-	-		<b>\$4</b> ,666 307			
Other assets:							<del></del>	<b>\$4</b> ,973	<b>46</b>
Materials and su		-	-	-		\$7,215			
Sinking funds, Debit balances from	n comp	anies a	nd ind	ividu	als.	38,850 11,954			
		•						58,019	<b>49</b>
Total,		_	-	-	-	-	-	\$820,483	45
	GENI	CRAL E	BALAN	CE S	HEE	ГСп.			
Capital stock,		-		_	8	350,000	00		
Funded debt,		:	-	-		250,000		<b>9600 000</b>	ω.
Unfunded debt:								<b>\$</b> 600,000	w
Notes payable,		_	-	-	\$	112,952			
Vouchers and acco	unus,	-	-	-		10,489		123,442	57
Profit and loss or i	ncome	accoun	ts,	-	-	-	-	97,040	88
Total,		-	-	-	~	-	-	\$820,483	45
	COST	OF RO	AD A	ND E	QUI	PMENT.			
Total Cost for Constr	uction a	nd Equi	pment	of Roa	d and	i Branch	es Bu	ilt by Compa	ny.
Total expended for	constr	uction	and e	quipn	ent,	. 1.	-	<b>\$</b> 757, <b>4</b> 90	50
Average cost per 20.36 miles.	mile o	L road,	not	ınciu	aing	sidings	ı,	37,204	83
Proportion of cost	for Mi	chigan,	-	-	-	-	-	757,490	
33		J.						•	

### CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

### MAIN LINE.

MAIN DINE.	
Improvements and new sidings,	<b>\$11,386 22</b>
Total,	<b>\$11,386 22</b>
Total charges to property account as above, \$11,38	36 <b>22</b>
Net addition to property account,	\$11,386 22
ANALYSIS OF EARNINGS.	
PASSENGER EARNINGS.	
3.C 1 31	
Main line: Local fares, \$16,960	66 99
Total passenger fares, \$16,966	66 99
	.2 34 .7 65
Total passenger department earnings,	\$17,996 98
Proportion for Michigan, \$17,996 Per train mile,	98 80
	93 93 · · · · · · · · · · · · · · · · ·
FREIGHT EARNINGS.	
<del></del>	
Main line: Local traffic, \$116,160	66 81
Total traffic, \$116,160	66 81
Total freight department earnings,	\$116,166 81
Proportion for Michigan, \$116,160 Per train mile, \$116,160	66 81 1 79
Per mile of road, 5,70	05 60
Total transportation earnings,	<b>\$134,163</b> 79
Transportation earnings per mile of road, Transportation earnings per train mile, From other sources.	9 57 1 53 - 493 65
,	
Total earnings from operation of road,	<b>\$134,657 44</b>
Total earnings per mile of road, \$6,613 Total earnings per train mile,	3 82 1 54
Proportion of taxable earnings for Michigan,	<b>\$134,657 44</b>

Total taxable earnings Michigan,	s per 1	mile o	f ro	ad in	\$	6,613	82		
Total income from	all s	ources	,	-	-	d	-	<b>\$</b> 134,657	44
Proportion of income	for M	ichiga	n,	_	-	-	-	134,657	44
	ANA	LYSIS	oF	EXPE	nses				
CLASS	1.— <b>M</b> o	intena	nce o	f Way	and E	Buildin	78.		
Repairs of road way a Repairs of bridges, in Repairs of buildings,	nd tra cludin	ck, g culv	erts	and ca	_	_ `	_	\$11,087 1,136 1,172	<b>46</b>
Total,	-	-	-	-	-	-	-	<b>\$</b> 13,396	04
CLASS 2	.—Маі	ntenan	ce of	Motive	Powe	r and (	Cars.		
Repairs of locomotives Repairs of passenger of Repairs of freight cars	3, _	_	_	_	-	 	_	\$3,269 1,009 7,860	24
Total,					_	-	_	<b>\$12,138</b>	98
	Lass 3							,	
Fuel for locomotives,		Cona	uctin	g Tran	<b>spor</b> ta	tion.		<b>\$12,280</b>	62
Oil and waste, Locomotive service,	-	-	-	-	-	-	-	1,410	63
Locomotive service,	-	-	-	-	-	-	-	10,301	
Passenger train service	е, _	-	-	-	-	-	-	1,560	00
Passenger train suppli Freight train service,	les,	-	-	-	• -	-	-	121 7,484	
Freight train survice,	-	-	-	-	-	-	-	121	18
Freight train supplies Mileage of freight car	) - E2	-	-	-	-	-	-	295	00
Mileage of freight car Damage and loss of fr	eight:	and h	aooa	- 0'e	-	-	-	21	
Damages to property	and ca	ttle.	~55~	50,	-	-	-	141	
Agents and station ser	vice.	-	-		-	-	-	6,966	24
Agents and station ser Station supplies,	_	_	-	_	_	_	_	630	
Total,	_	_	_		-	_	_	\$41,334	
·	Ст.	ss 4	Gener						
Calarian of the manage				_				<b>94 500</b>	ω.
Salaries of the genera Salaries of clerks in g	anerel	office	и Мес	ошраг	ıy,	-	-	<b>\$4,500</b> 1,003	
Taw expenses	CHOIGI	omoo	3,	-	-	-	-	150	
Law expenses, _ Insurance,	-	-	-	-	-	-	-	556	
Stationery and printin	 10°.	-	-	-	-	-	-	557	
Outside agencies and	dvert	ising.	-	-	-	-	-		22
Contingencies,		ъ,	-	-	•	-	-	1,663	
Taxes,	-	-	-	-	-	-	-	2,679	41
<b>,</b>	•			-	-		-	_,	
Total,		-	-	-	-	-	-	<b>\$</b> 11,174	<b>76</b>

### RECAPITULATION OF EXPENSES.

	Per Cent of Expenses.	
Maintenance of way and buildings,	17.17	<b>\$</b> 13,396 04
Maintenance of motive power and cars, -	- 15.55	12,138 98
Conducting transportation,	<b>52.96</b>	41,334 25
General expenses, including taxes,	- 14.32	11,174 76
Total operating expenses and taxes, -	100.00	<b>\$</b> 78,044 <b>03</b>
Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run,	<b>\$</b> 3,833 <b>2</b> 0	
for trains earning revenue,—87,315 miles, Proportion of operating expenses and taxes for Michigan:	89	
Main line,	78,044 03	
Total proportion of expenses for Michigan,		<b>\$</b> 78,044 03
Percentage of expenses to earnings,—58%.  Net earnings per mile of road,  Net earnings per train mile,	\$2,780 61 64	
DESCRIPTION OF ROAL	D.	
Date when the road was opened for use between	its present te	rmini:
From Hancock to Calumet, December, 1885. From Junction to Lake Linden, December, 18 From Calumet to Allouez, March 12, 1887.	85.	

### MAIN LINE.

In Michigan, from Hancock to Allouez,	Miles. 100ths. 17.86	Miles. 100ths.
Total length completed,		17.86
BRANCHES.		
Lake Linden from Junction to Lake Linden,	2.50	
Total length of branches owned by this company,		2.50
Total length of branches owned by company in Michiga	n, 2.50	
Total length of road belonging to this company,		20.36
Total length of road belonging to this company in Michigan,  Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,	20.36	
Aggregate length of tracks in Michigan belonging to this company computed as single track,  Gauge of track, 3 feet.	-	31.38

1889.]	HANC	OCK &	CALUM	ET RAD	LROAI	o co.	261
Total miles op	erated by	the co	mpany.		•	Total M	iles. In Michigan.
			- •		. 162.1.		20,00
		-	lges and !			_	
Iron bridges, Wooden trestl	number o les, numbe	f, er of	. 3; . 17;	aggreg aggreg	ate ler ate ler	ngth, fe ngth, f	et, <u>560</u> eet; <u>4,450</u>
Total,		-	_ 20;	-	-	_	5,010
		Draw.	Bridges i	n Michigo	ın.		
How many on	your line	? Non	16.				
	C	rossings	—Railroa	d and Hi	ghway		
What railroad Mineral Rai	s cross yo	ur road ad at O	l at grad sceola.	e in this	State	and at	what locality?
What railroad State, and w			d either	over o	r und	er you	r grade in this
At what cross: Osceola.	ings are i	nterlock	king and	derailin	g swit	ches in	operation?
What pattern pany's.	or patter	ns hav	e you a	dopted?	Pen	nsylva	nia Steel Com-
Number of cro Number of cro	esings of	highwa highwa	ys at gravs over	ade in th	nis Sta r railro	te, _	12
Over,—1. Number of hig Have safety go	Under,—N zhway bri	None, . dges 18	feet abo	ve track	 -, -	-	1 1 Yes.
Are your frog 174, session	and guardlaws 1883	d rails l	blocked	as requ	ired t	y act	
How are they	treated?	Woode	n block	are use	d.		
•			Statio				
<b>37</b> 1 4 4	. •						0
Number of sta Same in Michi			ne, _		 	-	6 6
			Employ	és.			
Number of per	rsons regn	larly er			oada o	poerate	d
by company,	including	g officia	ıls,		-	- -	80
Same in Mich		-		-	-	-	_ 80
Classify your	employés	as per f	ollowing	; list:			Number.
Baggagemer	ı, .	_		_	_	_	_ 2
Brakemen,		-		-	_	_	10
Conductors,		-		-	-	-	. 3
Engineers,		-		-	-	-	_ 5
Firemen,		-		-	-	-	. 5
Laborers,		-		-	-	-	_ 21
Shopmen,		-		-	-	-	_ <b>6</b>
Yardmen, Others,		-			-	-	- 5 - <b>23</b>
							7.3

### REPAIRS AND RENEWALS.

### Fencing in Michigan.

How many miles of fencing have you?	_ 6
Give the number of miles required to complete fence sides of your track in Michigan, and the counti which needed:	
In Houghton county,	34
Total miles required,	. 34
Road Bed and Track.	
Number of track sections in Michigan,	_ 5
Average length of sections,—miles,	. <b>5</b>
Average number of men in each section gang,	. 4
Bridges and Culverts.	
New bridges built during the year,	None.
ROLLING STOCK.	•
ROLLING STOCK.	_
	Present Number. Estimated Value.
Number of locomotives of more than 30 tons	<b>* *</b> 0* *0* *0*
weight, exclusive of tender,	5 \$35,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender,	1 3,000 00
exclusive of voluter,	
Total,	<b>\$38,000 00</b>
Number of passenger cars—8 wheel, including	
official cars,	4 8,000 00
Number of express and baggage cars,	1 250 00
Number of box freight cars,	15 4,500 00
Number of wood cars, Number of platform cars,	24 4,800 00
Number of platform cars,	49 9,800 00
Number of ore cars.	75 <b>22,493 45</b>
Other cars as follows: Hand cars,	4 280 00
Total,	172 <b>\$</b> 88,123 <b>4</b> 5
Number of locomotives equipped with power brakes,	. 1
Number of passenger train cars equipped with power by	
Number of freight cars equipped with power brakes,-	-None.
What patterns of power brakes have you in use? We	stinghouse automatic
air brake; 1 locomotive, 4 cars.	_
Are your freight care being equipped with automatic	complere se required

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? Yes.

What pattern or patterns have you adopted for use? Blocker.

How are your passenger cars heated? Spear stoves and heaters. Arrangements are now being made to substitute Baker hot water heaters.

### MILEAGE, TRAFFIC, ETC.

### Train Mileage.

Train Mil	leage.		
Miles run by passenger trains during the Miles run by freight trains during the y	1e year, year, _	 	22,447 64,868
Total mileage of trains earning reve	enue, _		87,315
Passenger 2	Traffic.		
	Numbers and Quantities.	Miles.	Rate. Dols. Cents.
Number of local passengers carried,	55,779	•	Dolla. Contra.
Total number of passengers carried, .	55,779		
Total passenger mileage, or passengers of mile,	carried one	385,509	
Average distance traveled by each passes Average amount received from each pass Average rate of fare per mile for local p Average rate of fare per mile for all pass	ssenger, passengers,	6.91	\$0 30.41 04.40 04.40
Freight Tr	raffic.		
Number of tons of local freight carried	Numbers and Quantities , 616,493		Rate. Dollars. Cents.
Total tons of freight carried,	616,493	· }	
•	•		
Total mileage of local freight,		4,865,	039
_		4,865,	
Total mileage of local freight,		4,865,	
Total mileage of local freight,  Total freight mileage, or tons carried or  Average ton haul for local freight,	ne mile,naul,for local free	4,865,	039 7.89
Total mileage of local freight,  Total freight mileage, or tons carried on Average ton haul for local freight, Average ton haul for all freight,  Average amount received for each ton h Average rate per ton per mile, received	ne mile,	4,865,	7.89 7.89 
Total mileage of local freight,  Total freight mileage, or tons carried or Average ton haul for local freight, Average ton haul for all freight,  Average amount received for each ton h Average rate per ton per mile, received Average rate per ton per mile, received  Freight Forwarded at a  Grain,	ne mile,	4,865,	7.89 7.89 - \$0 18.84 02.38 02.38
Total mileage of local freight,  Total freight mileage, or tons carried or Average ton haul for local freight, Average amount received for each ton haverage rate per ton per mile, received Average rate per ton per mile, received Freight Forwarded at a Grain, Flour,	ne mile,	4,865,	7.89 7.89 - \$0 18.84 - 02.38 - 02.38 - Tons. 1,380 - 326
Total mileage of local freight,  Total freight mileage, or tons carried or Average ton haul for local freight, Average amount received for each ton haverage rate per ton per mile, received Average rate per ton per mile, received Freight Forwarded at a Grain, Flour, Provisions (beef, pork, lard, etc.),	ne mile,	4,865,	7.89 7.89 - \$0 18.84 02.38 02.38 Tons. 1,380 326 1,103
Total mileage of local freight,  Total freight mileage, or tons carried or Average ton haul for local freight, Average amount received for each ton haverage rate per ton per mile, received Average rate per ton per mile, received Average rate per ton per mile, received Treight Forwarded at a Grain, Flour, Provisions (beef, pork, lard, etc.), Other agricultural products,	ne mile,	4,865,	7.89 7.89 - \$0 18.84 - 02.38 - 02.38 - Tons. 1,380 - 326
Total mileage of local freight,  Total freight mileage, or tons carried or Average ton haul for local freight, Average ton haul for all freight,  Average amount received for each ton haverage rate per ton per mile, received Average rate per ton per mile, received Freight Forwarded at a Grain, Flour, Provisions (beef, pork, lard, etc.), Other agricultural products,	ne mile,	4,865,	7.89 7.89
Total mileage of local freight,  Total freight mileage, or tons carried or Average ton haul for local freight, Average ton haul for all freight,  Average amount received for each ton haverage rate per ton per mile, received Average rate per ton per mile, received Ereight Forwarded at a Grain, Flour, Provisions (beef, pork, lard, etc.), Other agricultural products, Lumber and forest products, Coal, Copper,	ne mile,	4,865,	7.89 7.89
Total mileage of local freight,  Total freight mileage, or tons carried or Average ton haul for local freight, Average ton haul for all freight,  Average amount received for each ton haverage rate per ton per mile, received Average rate per ton per mile, received average rate per ton per mile, received Freight Forwarded at a Grain, Flour, Provisions (beef, pork, lard, etc.), Other agricultural products, Lumber and forest products, Coal, Copper, Copper rock,	naul, for local free for all freigh	4,865,	7.89 7.89
Total mileage of local freight,  Total freight mileage, or tons carried or Average ton haul for local freight, Average ton haul for all freight,  Average amount received for each ton haverage rate per ton per mile, received Average rate per ton per mile, received Ereight Forwarded at a Grain, Flour, Provisions (beef, pork, lard, etc.), Other agricultural products, Lumber and forest products, Coal, Copper,	naul, for local free for all freigh Michigan State	4,865,	7.89 7.89

### Tonnage of Articles Transported.—Entire Road.

						Tons.	Per Cent.
Grain,	_	_	_	-	_	1,380	00.22
Flour,	_	_	_	_	_	<b>326</b>	00.05
Provisions (beef, pork, lard, etc.	.),	_	_	_	_	1.103	00.18
Other agricultural products,	-	_	_	_	_	317	00.05
Lumber and forest products,	_	_	_	_		159,972	25.95
Coal,	_	_	_	_	_	9.874	01.60
Copper and copper rock,	_	٠	_	_	_	427,965	69.42
Manufactures, articles shipped	d fro	om po	oint of	prod	luc-	,.	
tion,	_	_				4.282	00.70
Merchandise and other articles	not	enur	nerate	d ab	ove,	11,274	01.83
Total tons carried,	_	_	_	_	_	616,493	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company runs on this road doing a general express business and paying 20 cents per 100 pounds for all express freight carried. The express is taken at our depots.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

10 miles of telegraph line belonging to the Mineral Range Railroad Co.

STATE OF MICHIGAN, SS. COUNTY OF HOUGHTON,

Charles A. Wright, General Manager, of the Hancock & Calumet Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, CHARLES A. WRIGHT. Subscribed and sworn to before me this 10th day of April, A. D. 1890.

Charles D. Hanchett, Notary Public.

### ANNUAL REPORT

### OF THE

### MINERAL RANGE RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed April 14, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, CHARLES BARD, New York City.

Secretary and Treasurer, JOHN TULLY, New York City.

Auditor and Cashier, C. M. HOAR, Hancock, Mich.

General Manager, C. A. WRIGHT, Hancock, Mich.

General Passenger and Freight Agent, R. H. BRELSFORD, Hancock, Mich.

Attorney, J. W. STONE, Houghton, Mich.

### DIRECTORS.

SIDNEY DILLON, New York City.
RUSSELL SAGE, New York City.
RUSH B. TAGGART, New York City.
E. L. FERRY, New York City.
HENRY F. SHOEMAKER, New York City.
W. R. SHELBY, Grand Rapids, Mich.
CHARLES BARD, Norwich, Conn.
COSTELLO LIPPITT, Norwich, Conn.
HENRY T. CHAPMAN JR., New York City.
WM. G. SMITH, New York City.
CHAS. W. CASS, New York City.

Terms expire July 8, 1890.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—November 3, 1871. Date of annual meeting of stockholders,—Second Tuesday in July. Fiscal year of company ends December 31.

General offices of the company are located at Hancock, Michigan.

### GENERAL EXHIBIT.

m				Di	BIT.	CRE	
Total income, Total expenses, including taxes,	-	- -	-	<b>\$</b> 61,930	23	<b>\$109,77</b> 5	06
Net income,	-	-	-		<b>-</b>	47,844	83
*Interest on unfunded debt,	<b>\$</b> 1	84 7	<b>'2</b>				
Balance for the year, Balance (profit and loss) last year Balance forward to next year,	- <b>ir,</b> -	- -	- -	<b>\$184,14</b> 8	84	\$47,660 136,488	
			•	<b>\$184,148</b>	84	\$184,148	84
ANALYSIS (	OF C	APII	'AL	STOCK.			
Amount authorized by charter or	r arti	cles	of a	association	1,	\$400,000	00
Par value of shares, No. of shares issued,	-	<b>\$</b> 100	) 00 ,917				
Amount paid in on common,	-	-		<b>\$</b> 391,700	00		
Total amount paid in as per bo	oks o	of th	e co	mpany, -	-	<b>\$</b> 391,700	00
Paid in per mile of road owned —17 miles,	by c	omp	any	\$23,041	18		

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.	
Main line, June 1, 1875.  Main line, December 14, 1886. Calumet ext. and Franklin branch, Oct. 1, 1885, Houghton extension, January 1, 1886.	8% 4% 5% 5%	June 1, 1888. January 1, 1937. October 1, 1915. January 1, 1916.	New York New York New York New York	\$198,900 00 213,200 00 100,000 00 100,000 00	
Total funded debt				\$612,100 00	

<sup>\*</sup> No interest on bonds charged off in 1889, the road being in the hands of a receiver until November 30, of that year, and being now in process of reorganization.

#### UNFUNDED DEBT.

For What Incurred.	Is ti	e Sam	e to b	e Funded	or How Liqui	dated.	Amount	
For construction. For equipment. For real estate.								
For renewals.  For miscellaneous.  For current balances.	Accru	ed inte	rest	on bonds.			\$21,11 8,10	6 00 5 21
Total unfunded debt							\$29,22	21 21
	R	ECAPI	TUI	LATION.				
Total funded debt, Total unfunded debt,	- -	-	-	-		-	\$612,100 29,221	00 <b>21</b>
Total debt liabilities	ι,	-				-	<b>\$</b> 641,321	21
Amount of debt liabilitie Total amount of stock an Stock and debt per mile	ıd deb	t,	-	-	-17 miles,	- -	$\begin{array}{c} 37,724 \\ 1,033,021 \\ 60,765 \end{array}$	21
GENI	ERAL	BAL	AN(	E SH	EET.—Dr.			
Construction account, Equipment account,	_	- -	-	- -	\$653,269 85,223	32 16	<b>0</b> 7700 400	40
Cash items: Cash, Due from agents,	-	-	-	-	\$47,289 1,102		<b>\$</b> 738, <b>4</b> 92	48
Other assets: Materials and supplies, Debit balances from co	, imnan		nd i	- n_	<b>\$11,187</b>		48,392	26
dividuals,		_	-	-	8,350			
Account H. S. Ives & (	Co.,—	in su	spe	nse,	408,970	89		
Sundry stocks,	-	-	-	-	1,776	_	430,285	31
Total,	-	-	-	-		-	<b>\$</b> 1,217,170	05
GEN	ERAL	BAL	ANO	CE SHI	EET.—Cr.			
Capital stock, Funded debt,	 	- -	-	- -	\$391,700 612,100	00	<b>#1 009 000</b>	<b>^</b>
Unfunded debt: Interest unpaid, accrue	d on	$\mathbf{bond}$	s,	_	<b>\$21,116</b>	00	<b>\$</b> 1,003,800	w
Notes payable,		- -	-	-	904 7,200		•	
Profit and loss or income	accou	ınts,		_			29,221 184,148	
Total,	-	_		-		_	<b>\$</b> 1,217,170	

#### COST OF ROAD AND EQUIPMENT.

	01			•	J 12 1111 ( 1 )			
Total Cost for Construction	on and 1	Equip	nent o	f Road	l, and Branci	res Bu	ilt by Compai	ıy.
Total expended for con Average cost per mil	nstruct e of r	ion ar oad, r	nd eq not in	uipme cludin	ent, ng sidings,—	-17	<b>\$738,492</b>	
miles,	34. ī.	-	-	-		-	43,440	
Proportion of cost for	Michig	gan.	-	-		-	738,492	48
CHARGES AND	CREDI				TY DURING	THE	YEAR.	
			IN L	NE.				
Improvement, draw br	ridge,	-	-	-		-	\$400	
New buildings, New locomotives,	-	-	-	-		-	3,724	
New cars,	-	-	-	-		-	8,075 2,742	20 20
	-	-	-	-		-	2,172	_
Total,	-	-	-	-		-	<b>\$14</b> ,942	20
		BF	BANCH	ES.				
Extensions and new si	dings,	-	-	-		-	<b>\$</b> 304 3	36
Total charges to prope	rty acc	ount	as ab	ove,		-	\$15,246	56
Net addition to pr	roperty	acco	unt,	-		-	<b>\$15,246</b>	56
	ANAJ	LYSIS	OF :	EARN	INGS.			
	PA	88ENG	ER E	ABNIN	G8.			
Main line and branche Local fares,	8:	_	•	-	<b>\$</b> 33,486	74		
Total passenger fa	ires,	-	-	-	<b>\$</b> 33,486	74		
Express and baggage	е.	_	_	_	1,198	63		
Mails,	_	_	_	_	987			
Total passenger de	epartm	ent e	arnin	gs,		-	<b>\$</b> 35,672	79
Proportion for Mich	ioan.				<b>\$</b> 35,672	<b>7</b> 9 ·		
		-	-	_		02		
Per train mile, Per mile of road,	_	_	_	_	2,098	39		
		REIGH	T TEA	BNING	8.			
Main line and homeha								
Main line and branche Local traffic,	-	-	-	-	\$69,711	66		
Total traffic,	-	-	-	· <b>-</b>	\$69,711	66		
Total freight depa	rtment	earn	ings,	-		-	<b>\$</b> 69,711 6	36
Proportion for Mich	igan,	_	_	_	<b>\$</b> 69,711	66		
Per train mile,	-	_	_	_	1	<b>7</b> 5		
Per mile of road,	-	-	-	-	4,100			
Total transportation	on earı	nings,		-		-	<b>\$</b> 105,384 4	5

$\alpha$	ര	
• 44		
~	U C	

1000.j	LI IVA	11013	IWIII	MWA.	<i>D</i> 00.		4	
Transportation earnings per Transportation earnings per	mile d	of ros mile,	vd, - -	:	<b>\$</b> 6,199		•	
From other sources,	-	-	-	-	-		<b>\$4</b> ,390 (	61
Total earnings from open	ration	of r	oad,	-	-	-	<b>\$</b> 109,775	06
Total earnings per mile of ro Total earnings per train mile	ad,	-	- -	-	\$6,457 1	35 47		
Proportion of taxable earning Total taxable earnings per Michigan,	gs for mile	Mich of ro	nigan, oad i	n.	- <b>\$</b> 6, <b>4</b> 57	35	109,775	06
Total income from all so	urces,	,	-	-	-		<b>\$</b> 109,775	06
Proportion of income for Mi	chiga	n,	-	-	-		109,775	06
ANAI	ysis	OF :	EXPE	NSES	3.			
CLASS 1.—Mai	ntena	nce of	Way .	and B	uilding	8.		
Repairs of road way and trace Renewals of ties, Repairs of bridges, including Repairs of buildings,	_	- erts a	nd ca	- ttle g -	- ruards, -	- - -	\$6,400 3 1,210 6 752 3 1 901	00 53
Total,	•	-	-	-	-	-	<b>\$10,264</b>	<u></u>
Class 2.—Main	tenanc	e of M	otive.	Power	and C	ars.		
Repairs of locomotives,		•	•	•	•		<b>\$</b> 3,628 \$	50
Density of nonemonives,	-	-	-	-	-	-	1 074 7	70 70
Repairs of passenger cars,	-	-	-	-	-	-	1,074	17
Repairs of freight cars,	-	-	-	-	-	-	1,936 2	22
Total,	-	-	-	-	-	-	<b>\$</b> 6,639	51
Class 3.—	Condr	ıcting	Trans	porta	tion.			
Fuel for locomotives,							<b>\$</b> 7,933	74
Oil and waste,	-	-	-	-	-	-	960	
T 12		-	-	-	-	-	6,644	
Passenger train service,	-	-	-	-	-	-	1,500 (	
Passenger train supplies,	-	-	-	-	-	-	151 (	
Project train garvice	-	-	-	-	-	-	4,162	
Freight train supplies	-	-	-	-	-	-	151 (	
Freight train supplies, Damage and loss of freight a	nd ha	-	-	-	-	-	167	
		RR#R	<del>,</del>	-	-	-	233 (	
Damages to property and cat	me,	-	-	-	-		4,515 (	
Agents and station service,	-		-	-	-	-	905 9	
Station supplies,	-	-	-	-	- •	-		
Operating P. L. draw bridge,	-	-	-	-	-	-	2,640 (	N
Total,	-	-	-	-	-	-	<b>\$29,965</b> 8	<u></u> 35

#### CLASS 4.—General Expenses.

Salaries of the	ne g	eneral	offic	ers of t	he c	ompa	ıy,	-	_	<b>\$4,</b> 500	
Salaries of cl	lerk	s in ge	nera.	loffice	3, _	_	-	-	-	1,003	
Law expense		-	_	_	· _	_	_	_	_	1,596	
Insurance,	_	_	-	_	_	-	-	-	-	1,368	
Stationery ar	ad p	rinting	ζ,	_	_	-	-	-	_	1,152	
Outside agen	cie	s and a	dver	tising,	_	_	_	-	_	84	
Contingencie	8,	_	_	_	_	_	-	_	_	3,048	
Taxes,	-	-	-	-	-	-	-	-	-	2,306	91
Total.	_	_	_	_	_	_	_	_	_	\$15,060	38

#### RECAPITULATION OF EXPENSES.

RECAPITULATION OF EXPENSES.							
	Per Cent of Expenses.						
Maintenance of way and buildings,	16.57 \$10,264 49						
Maintenance of motive power and cars,	10.72 . 6,639 51						
Conducting transportation,	48.39 29,965 85						
General expenses, including taxes,	24.32 15,060 38						
Total operating expenses and taxes,	100.00 \$61,930 23						
Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run,	<b>\$</b> 3,642 95						
for trains earning revenue,—74,514 miles, Proportion of operating expenses and taxes for	83						
Michigan: Main line,	61,930 23						
Total proportion of expenses for Michigan,	\$61,930 23						
Percentage of expenses to earnings,—56%.  Net earnings per mile of road,  Net earnings per train mile,	2,814 30 64 .						

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Houghton, to Red Jacket, March 26, 1886.

#### MAIN LINE.

In Michigan, from Houghton to Red Jacket,	•	15.00			
Total length completed,	-		15.00		
Branches.					
Franklin Branch, from Franklin Station to Quine Total length of branches owned by company,	ey Min	ne, 2.00	2.00		

1000.	MINIMA	J IMMOD IM	illiwad oo.	•	411		
in Michiga Total length	of road belongin of road belongin	g to this com	ipany,	2.00 17.00	17.00		
	ngth in Michiga racks not above				5.00		
Aggregate leading to this	ngth of tracks in company, compu	Michigan be ted as single	olong- track,		22.00		
Gauge of trac	k, 3 feet.						
Total miles of	perated by the c	ompany, -		Total Miles, 17.00	In Michigan. 17.00		
	Number of Bri	dges and Tree	tles in Michig	an.			
Wooden trest	es, number of,	6; agg	gregate lengt	h, feet,	645		
Total,		. 6;	-·		645		
Draw Bridges in Michigan.							
Houghton, Character of a Have truss Material of w Wood. Height above Height above How swung, Engine. Approaches, s Curved. Do you required and how ar All trains recommends	d, when built an Mich., built in structure: spans supported hich constructed water, and dept ve water 6 feet, by engine or han traight or curve re all trains to be they signalled quired to come y flagman station	by wooden of the state of the s	ength of draw cribs filled winder bridge: er 34 feet.	ith riprap.	g a draw,		
	·	-Railroad an					
Hancock & Hecla & To At what cross Osceola. What pattern Pennsylvan Number of continuous Number of Continuous Number of continuous Number of continuous Number of Continuous Number of Continuous Number of Continuous Number of Continuous Number of Continuous Number of Continuous Number of Continuous Number of Continuous Number of Continuous Numb	ds cross your roa Calumet Railro orch Lake Railro ings are interloc or patterns have ia Steel Compa rossings of high crossings of high ere are gates or	ad at Osceola ad at Calumo king and der you adopted my's pattern. ways at gra- ways at gra-	a. et. railing switch de in this St	es in opera	-		
				-	_		

Number of of Over,—1.	crossii Und	igs (	of high -1.	ıwa ya	over	or ur	der r	ailroa	d:	
Are your fro	gs and	l gu	ard ra	ils b	locked	l as re	equire	d by	Act	
174, Session How are the				oden	- block	- 9 970	- hasir	-	-	
220W, uno uno	y urou	wa.	****		Station		abou.			
Number of s	tation	s on	whole	line.				_		
Same in Mic			-	-	-	-	-	-	-	
				į	Emplo	jés.				
Number of	perso	ns	regula	arly	emple	yed	on a	all ro	ads	
operated b			y, incl	uding	g offic	ials,	-	-	-	
Same in Mic	higan	,	-	-	-	-	-	-	-	
Classify yo	o <b>ur en</b>	plo	yés as	per f	ollow	ing li	st:			
										Nu
Baggagemen	١,	-	-	-	-	-	-	-	-	
Brakemen,	-	-	-	-	-	-	-	-	-	
Conductors,		-	-	-	-	-	-	-	-	
Engineers,	-	-	-	-	-	-	-	-	-	
Firemen,	-	-	-	-	-	-	-	-	-	
Laborers,	-	-			-	-	-	-	-	
Shopmen,	-	-	-	-	-	-	-	-	-	
Yardmen, Others,	-	-	-	-	-	-	-	-	-	
Outors,	-	-	-	-	-	-	-	-	-	
			REI	PAIRS	AND	RENE	WALS.			
			1	Fencin	g in 1	Lichig	an.			
How many n	niles c	of fer	ncing l	have	you?	-	-	-	-	
Give the nur sides of yo needed:										
Houghton co	ounty,		-	-	-	-	-	-	-	
				Road .	Bed an	d Tra	c <b>k</b> .			
Number of t	rack s	ectio	ns in	Mich	igan,	-	-	-	-	3
Average leng	gth of	sect	ions,–	-mile	s, -	-	-	-	-	6
Average nun								-	-	4
Number of n								ear,	-	6,050
								-	-	6,050
Number of n	1					TOO		_	_	355
Average nun	aber o	f ne	w ties	per n	nne o	LIUau	٠, -	-	-	000

#### ROLLING STOCK.

		100	131311	1U D	TOOR	•		
							Number.	Present Estimated Value.
Number of locomot weight, exclusive	of ten	der,		-	-	_	1	**7,802 80
Number of locomotic exclusive of tender	r.	_	_	_		_	1	6,857 07
Number of locomoti exclusive of tende	ves of r,	10 to	20 -	tons -	weigl	nt, -	4	21,118 30
Total, -	-	-	-	-	-	-	6	<b>\$</b> 35,778 17
Number of passeng	er cer	s8	-whe	el, in	cludi	ng		
official cars	-	_	-	_	-	_	5	<b>12,423 00</b>
Number of express a	and be	aggag	ra ca	ra	_	_	2	5,768 70
Number of bar freis	ht a	*55°*5	, C Ca	10,	_	_	$oldsymbol{ar{2}}$	11,450 00
Number of box freig			-	-	-	-		
Number of platform	cars,	-	-	-	-	-	<b>5</b> 8	17,961 18
Number of conductor	rs' wa	v car	8.	_	_	-	1	328 05
Other cars, -		,, -	~,				$ar{f 4}$	278 65
Other cars,	-	<b>-</b>	-	-	•	-		
Total, -	-	-	-	-	-	-	102	<b>\$</b> 83,987 75
Number of locomo	tives	equij	pped	with	pow	er		
brakes,	-	_	-	-	-	-	4	
Number of passenge	r_trai	n ce	ra e/	minn	iw ha	th		
Number of passenge	71 - 01 GL	u ca	10 01	լաւբբ	OU WI	UII	_	
power brakes,	-	-	-		-	-	5	
Number of freight	cars	eauiı	$\mathbf{peq}$	with	wog r	er		
brakes.					•		None.	
	ī	1		<u>-</u>				1
What patterns of po	wer b	rakes	s nav	е уот	ım u	use, ∶	ana numbe	er or locomo-
tives and cars w	ith ea	ich?	We	sting	house	au	tomatic air	brake on 3
locomotives and fo	111 P AQ1	· F	mag	, 4001	mm h	robo	on 1 locom	otive and one
	Jui Cai	.s, 120	жшов	Vaci	ıum v	LOPC	OH I IOCOM	ON AG WHAT OHO
car.			_	_				
Are your freight car	rs beir	ng eq	uipp	ed w	ith au	tom	atic couple:	rs as required
by Act No. 147, S	aggion	Tow	ra of	1885	9 V		•	•
Dy ACC 110. 121, N	OBBIOL	1	5 01	1000		<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 0 TD11	_
What pattern or pat	terns	nave	you	accop	tea ro	rus	e : Piocke	<b>[,</b>
How are your passes	nger c	ars h	eate	d? 8	Spear	stov	es and hea	ters; arrange-
are now being ma	de to	anhai	hitmte	Bak	er ho	t wa	ter heaters.	, ,
are now being mu	<b></b>	Du.D.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, <b>1</b> 041	101 110		or mounded.	
	M	IILE	AGE,	TRA	FFIC,	ETC.		
			Train	n Mil	eage.			
Wiles was because		.i	J.,:-	41				34,680
Miles run by passen Miles run by freigh	ger tr t train	s du	iurii ring	the y	ear,	,		39,83 <b>4</b>
Total mileage o			_	•				74,514
	- 44.011		_	-				. 2,022
		P	assen	ger I	raffic.			

Number of local passengers carried,	Numbers and Quantities. 115,924	Miles.	Rate. Dollars. Cents.
Total number of passengers carried,	115,924		

Total passenger mileage, or passengers car Average distance traveled by each passer Average amount received from each pass Average rate of fare per mile for local passengers are of fare per mile for all passengers.	Miles. 857,519 7.39 		
Freight Tra	ffic.		
Number of tons of local freight carried,	Numbers and Quantities. 115,520	Miles.	Bate. Dollars. Cents.
Total tons of freight carried,	115,520		
Total mileage of local freight,		817,990	
Total freight mileage, or tons carried	d one mile,	817,990	)
Average ton haul for local freight, Average ton haul for all freight,		7.08 7.08	
Average amount received for each ton he Average rate per ton per mile, received for Average rate per ton per mile, received in	or local freigl		<b>\$</b> 0 60.34 08.52 08.52
Freight Forwarded at M	Tichigan Station	ns.	<b></b>
Grain, Flour, Provisions (beef, pork, lard, etc.), Animals,	  	- - -	3,213 1,868 11,365 225 1,503
Other agricultural products,  Lumber and forest products,  Coal,  Copper,  Manufactures,—articles shipped from poi  Merchandise and other articles not enum			53,931 9,844 11,062 4,491 18,018
Total forwarded,		•	115,520
Tonnage of Articles Transpo	rted.—Entire	Road.	
Grain,	<u>.</u> .	Tons. 3,213 1,868	Per Cent. 02.78 01.62
Provisions (beef, pork, lard, etc.), Animals, Other agricultural products,	_	1,365 <b>22</b> 5 1,503	09.84 00.19 01.30
Lumber and forest products, Coal,	. 5 -	3,931 9,8 <del>44</del>	46.68 08.52
Copper, Manufactures,—articles shipped from pos of production,	int	1,062 4,491	09.58 03.89
Merchandise and other articles renumerated above,	not1	8,018	15.60
Total tons carried,	. 11	5,520	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company runs on this road, paying one and onehalf times first-class freight rates for the transportation of express matter,

which is received and delivered by this road at the depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Fifteen miles belonging to this road.

\_\_\_\_

STATE OF MICHIGAN, COUNTY OF HOUGHTON, ss.

Charles A. Wright, General Manager, of the Mineral Range Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, CHARLES A. WRIGHT.

Subscribed and sworn to before me this 10th day of April, A. D. 1890.

CHARLES D. HANCHETT, Notary Public.

#### ANNUAL REPORT

OF THE

### DULUTH, SOUTH SHORE AND ATLANTIC RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed April 17, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES McMILLAN, Detroit, Mich.

Vice President, CALVIN S. BRICE, New York City.

Secretary, L. M. SCHWAN, New York City.

Auditor, E. W. ALLEN, Marquette, Mich.

Treasurer, W. A. C. EWEN, New York City.

General Manager, W. F. FITCH, Marquette, Mich.

Superintendent, D. M. PHILBIN, Marquette, Mich.

Assistant Superintendent, A. M. SUTHERLAND, Marquette, Mich.

Chief Engineer, C. H. V. CAVIS, Marquette, Mich.

General Passenger Agent, C. B. HIBBARD, Marquette, Mich.

General Freight Agent, Wm. ORR, Marquette, Mich.

General Counsel, W. P. HEALY, Marquette, Mich.

#### DIRECTORS.

James McMillan, Detroit, Mich.
Sir Geo. Stephen, Montreal, Canada.
Sir Donald Smith, Montreal, Canada.
Wm. C. Van Horn, Montreal, Canada.
Calvin S. Brice, New York City.
John G. Moore, New York City.
John W. Sterling, New York City.
Samuel Thomas, New York City.
Geo. I. Seney, New York City.
Richard J. Cross, New York City,
Thos. W. Perrsal, New York City.

Terms expire July 18, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—March 7, 1887. Number of stockholders at date of last election, - - - Number of stockholders in Michigan at same date, - - - - 15
Amount of full paid stock held in Michigan at same date, - 15,904 shares.

Date of annual meeting of stockholders, - Third Thursday in July.

Fiscal year of company ends December 31.

General offices of the company are located at Marquette, Mich., and 10 Wall St. New York City.

#### GENERAL EXHIBIT.

				Dı	BIT.	CRE	DIT.
Total income,		-	-		-	<b>\$</b> 1,976,350	38
Total expenses, including taxes	,	-	-	<b>\$</b> 1,161,515	<b>2</b> 8		
Net income,		-	-		_	<b>\$</b> 814,835	10
*Interest on funded debt, Interest on unfunded debt, Rentals of buildings, tracks, etc.,		- - -	- -	\$519,352 132,963 22,317	21	674,632	30
Balance applicable to dividends	3,	-	-			<b>\$140,202</b>	
†Dividends declared, 6%,		-	-	\$196,707	36		
Balance for the year, defic	it,	-	-	\$56,504	56		
Balance (profit and loss) last y Dividends on M., H. & O. treas			- '			<b>\$</b> 51,351 2,838	
Balance forward to next ye	ær,	-	-			2,314	90
				<b>\$</b> 56,504	<b>56</b>	\$56,504	<b>56</b>
ANALYSIS	в ог	CAPI	TAI	L STOCK.			
Amount authorized by charter	or a	rticles	of	association,	-	\$22,000,000	00
Par value of shares,  No. of shares issued, { Common Preference Pr	red,		000	\$12,000,000 10,000,000			
Total amount paid in as pe	r bo	oks of	th	e company,	-	\$22,000,000	00

<sup>\*</sup> Duluth, South Shore & Atlantic, \$200,000.00; Marquette, Houghton & Ontonagon, \$319,852.00.

<sup>†</sup> On the Marquette, Houghton & Ontonagon preferred stock.

Paid in per mile of road owned by company,
—386.41 miles,

\$56,934 35

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.
D., S. S. & A., first mortgage, issued January 1, 1887 D., S. & A. first consolidated mortgage bonds issued June 1, 1888 Car trust of July 9, 1888, closing payment to be	5≰ 5≰	January 1, 1987 June 1, 1988	New York	\$4,000,000 00 8,800,000 00
made on November 7, 1895, interest included in this amount. Amount of monthly pay- ment \$8,005.00		Monthly	New York	568,355 00
Total funded debt				\$8, <b>36</b> 8, <b>35</b> 5 <b>00</b>

#### UNFUNDED DEBT.

For what Incurred,	Is the Same to be Funded, or How Liquidated.	Amount,
For construction		\$3,294,621 80 140,815 85
For renewals For miscellaneous For current balances	To be paid in cash	118,296 78 108,267 68
Total unfunded debt		\$3,656,992 11

#### RECAPITULATION. .

Total funded debt, Total unfunded debt,	-	-	-	-	-	-	\$8,368,355 3,656,992	00 11
Total debt liabilities	,	-	-	-	-	-	\$12,025,347	11
Amount of debt liabilities	s per	mile	of ro	ad,—a	86.41	miles,	31,120	61
Total amount of stock a	nd de	bt,	-	-	-	_	<b>\$</b> 34,025,347	11

#### GENERAL BALANCE SHEET.—Dr.

Construction account, Equipment account,	_	-	-	-	<b>\$27,599,725</b> ( 1,570,899 (		
-1-1					<del></del>	<b>\$29,170,624</b>	<b>76</b>

Other investments, specifying same:

1889.] DULUTH, SOUTH	SHOR	ere &	<b>Δ ΤΤ.</b>	ANTIC RA	ATT.W	AV CO	279
Sault Ste. Marie Bridge C Mackinaw Transportation	ompa: Comp	ny, sany,	-	<b>\$4</b> 3,6	81 40 64 93	)	2.0
West Superior Terminal a Railway Company, - Negaunee & Palmer Railr	and T	ransfo - -	e <b>r</b> - -	18,1 89,9	00 00 45' 15	;	
Cash items:						<b>\$2</b> 87,491	48
Cash, Due from agents,	-	-	-	\$30,9 20,3	83 01 18 78	}	70
Other assets:						51,301	. 19
Materials and supplies, Debit balances from com		and	-	<b>\$144,</b> 5			
individuals,	-	-	-	44,6	06 23	189,560	86
Secureties in treasury:						·	
M., H. & O., preferred sto M., H. & O., common stoc	ck,	_		\$3,800,0 35,6 27,3	00 00 <b>32 63</b> 70 00	 	40
Car trust equipment, Profit and loss,	-	<u>-</u>	-		-	3,863,002 568,355 2,314	00
Total,	-	-	-			<b>\$34,132,651</b>	42
GENERA	AL BA	LANC	E SF	HEET.—Cr	<b></b>		
Capital stock, Funded debt,	-	-	-	<b>\$22,000,0</b> 8,368,3			00
Unfunded debt:						<b>\$</b> 30,368,355	w
Interest unpaid, Dividends accrued, Notes payable, Vouchers and accounts,		- - -	- - -	3,435,4	<b>65 26</b>		
Other liabilities (list as follo	ws):						
Labor, Coupon ticket ledger, Mileage ledger,	-	-	- -	15,0	34 85 48 67 09 93		
M., H. & O., lease account M., H. & O., security account D., S. S. & A. lands		- - -	-	 	-	3,656,992 68,489 38,602 212	18 63

Total,

**\$**34,132,651 42

**\$**485,425 43

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road, and Branches Bu	vilt by Company.
Total expended for construction and equipment, Average cost per mile of road, not including sidings,—386.4	29,170,624 76
miles,	75,491 38
Proportion of cost for Michigan,	24,038,720 13
CHARGES AND CREDITS TO PROPERTY DURING THE	E YEAR.
MAIN LINE.	
Extensions and new sidings, \$241,678 01	
New buildings, 10,145 63	
New locomotives, 57,412 69	
New cars, 160,643 79	
Total,	<b>\$</b> 469,880 <b>12</b>
BRANCHES.	
Branches to mines, etc., extensions and new sidings,	
Total,	<b>\$15,545</b> 31
Total charges to property account as above,	<b>\$</b> 485,425 43

Net addition to property account,

# ANALYSIS OF EARNTNGS.

## PASSENGER EARNINGS.

Boeds.	Local Fares.	Through Fares.	Through Passenger Fares. Fares.	Express and Baggage.	Meils.	Other Sources.	Total.	Proportion Per for Mile.	Per Train Mile.	Per Mile of Road.
Main line and branches.	\$165,669 96	\$105,669 96 \$104,638 48 \$270,508 44	¥270,308 44	\$6,657 22	\$6,657 22 \$21,208 29	\$628 05	\$626 05 \$286,800 00 \$221,948 64	<b>\$221,948 64</b>	28 OS	\$710 19
Leased or Proprietary Roads.										
Marquette, Houghton & Ontonagon Railroad	141,129 80	41,155 41	41,155 41 182,285 21	7,804 87	6,761 72	90 <del>1</del> 92	197,115 96 197,115 96	197,115 96	1 18	1,447 14
Marquette & Western Railroad	4,194 92		4,194 92	184 41	155 47		4,484 80	4,484 80	1 16	215 90
Total passenger department earnings	\$310,9 <b>64</b> 68	\$145,798 89	\$310,994 68 \$145,788 89 \$456,788 57 \$14,560 00 \$28,125 49 .	\$14,596 00	\$28,125 48	\$890 11	\$890 11 \$500,400 16 \$423,548 90	<b>\$423,548</b> 80	96 0\$	80 998\$

## FREIGHT EARNINGS.

Boeds.	Local Traffic.	Through Traffic.	Total Traffic.	Other Sources.	Total.	Proportion Per for Michigan. Train Mile.	Per Train Mile.	Per Mile of Boad.
Main line and branches	\$151,846 88	\$269,317 23	\$421,164 11	\$3,908 40	\$425,067 51	\$815,740 14	\$0 78	\$1,010 81
Marquette, Houghton & Ontonagon Railroad. Marquette & Western Railroad	92,795 95	72,014 27	917,085 50	5,048 48	822,143 98	922,148 98 85,415 84	159 128	6,770 01
Total freight department earnings	\$258,043 90	\$1,165,631 05	\$258,043 90 \$1,165,631 05 \$1,423,674 95	!	\$8,961 88 \$1,432,626 88 \$1,825,299 46	\$1,823,299 46	\$1.17	\$2,479 58

Total transportation es	rnings,	-	-	-	-	-	<b>\$</b> 1,933,026 <b>99</b>
Transportation earning Transportation earning				- <b>1</b>	3,345 1	67 10	•
Miscellaneous receipts other than for transp From rentals of tracks	ortation, or termin	as foll als, M	ows: ., H. &	O., \$	32,000	00	
From other sources,	D., S. S. M., H. M. & V	8. & A. & O., 7.,	, - - -	_ 2 _ _	19,663 <b>4,263</b> 7,395	<b>56</b>	<b>\$4</b> 3,323 3 <b>9</b>
Total,			-		3,323		<b>\$43,323</b> 39
Distribution of misce proprietary roads:	llaneous	earnir					
Duluth, South Shore &	& Atlantic	ı R'ıı	Total M	100 GG	2 24		stion for Michigan. \$23,134 48
Marguette Houghton	e Ontone	zon R	ъ- ¶	6 26	8 56		6,263 56
Marquette, Houghton & Marquette & Western	R. R.,	- -	_ '	7,39	5 99		7,395 99
Total earnings fro				-	-		<b>\$1,976,350</b> 38
Total earnings per mil	le of roa	d, _	_	_ \$	3,420	65	
Total earnings per train Proportion of taxable of Total taxable earnings	earnings :	for Mi	chigan coad ii	1	-	13.4	1,746,848 26
Michigan, Income other than from	m earning	- 38, -	-	- <b>8</b>	3,720 -	<b>2</b> 6	2,838 00
Total income from	all source	.es,	_			-	<b>\$1,979,188 38</b>
Proportion of income	or Michi	gan,	_				1,749,686 26
	ANALYS	SIS OF	EXPE	nses.			
Class	1.—Mainte	nance o	f Way	and B	uildin	<b>78.</b>	
Repairs of road way as	nd track.	_	_	_	_		<b>\$147,799</b> 8 <b>4</b>
Renewals of rails,		-	-	-	_	-	7,990 53
Renewals of ties,		_	_	_	_	_	18,059 40
Repairs of bridges, inc	luding cu	lverts	and ca	ttle g	uards,	_	7,388 45
Repairs of fences, road				-	_ `	_	6,269 84
Repairs of buildings,		-	_	-	_	-	20,384 22
Total,		-	_	_	_	_	\$207,892 28
CLASS 2	-Maintena	ince of	Motive	Power	and C	ars.	
Repairs of locomotives							<b>\$</b> 53,720 37
Repairs of passenger c	nre.	-	-	-	-	-	16,697 63
Repairs of freight cars	, - , -	-	-	-	_	-	74,356 49
motel.							<b>\$</b> 144,774 49
Total,	 ASS 3.— <i>Co1</i>	- ada atim	- a Trace	- monto	- tion	•	<b>\$177,117 7</b> 3
	ass J.—-∪01	ucirn	y irun	ороти	. ev / b.		<b>41</b> 45 455 50
Fuel for locomotives,		-	-	-	-	-	<b>\$</b> 167,827 78
Water supply,		-	-	-	-	-	13,027 44

1889.] I	OULUTH,	SOUTH	SHOF	E &	ATLA	NTIC	RAII	JWAY	co.	283
Oil and was	ato								<b>\$6,3</b> 86	59
		-	-	-	-	-	-	-	123,670	42
Locomotive Passenger t	rain serv	rice -	-	-	-	-	-	-	22,166	
Passanger	rain sur	nlies	-	-	-		-	-	4,278	
Passenger of Mileage of Freight tra Freight tra	noggonge	hiios,	-	-	-		-	-	6,280	60
Froight tro	passenge	o Care,	-	-	-		-	-	106,791	
Freight tra	in servici	, <sub>-</sub>	-	-	-	-	-	-	6,489	
Tologne da	m subbu	(mointo	-		-	رسسا	-	-	24,119	71
Telegraph of Damage an	y jess et	(mainte	папсе	and d	opera.	ıπg),	-	-	967	12
Damage an	G 1088 OI	TLOIGHT	STIC DE	RRAF	<b>ζ</b> θ,	-	-	-		
Damages to				-	-	-	-	-	7,730	. 54
Personal in Agents and	juries,		-	-	-	-	-	-	4,974	
Agents and	station s	service,	-	-	-	-	-	-	138,167	
Station sup	opnes, -	-	-	-	-	-	-	-	4,639	09
Total,		. <u>-</u>	-	_	_	_	_	-	<b>\$</b> 637,516	95
		۰.	og 4 4	Tam am	al Fan	am aaa				
			as 4.—(		-					
Salaries of	${f the\ gene}$	ral office	rs of t	he co	ompan	у,	-	-	<b>\$</b> 34,044	
Salaries of		general	offices	3,	-	-	-	_	34,681	
Law expens	3 <b>08</b> , .		-	-	_	_	_	-	10,958	
Insurance, Stationery : Outside age		_	_	-	_	-	-	-	10,650	
Stationery	and print	ting,	_	_	_	_	_	_	17,010	14
			ising,	_	_	_	_	_	8,438	<b>55</b>
Contingenc	ies, .		_	_	_	_	_	_	18,590	<b>84</b>
Taxes,	· -		-	_	_	-	_	_	36,956	<b>25</b>
Total,		-	-	-	-	-	-	-	<b>\$</b> 171,331	<b>56</b>
		RECAP	rmtt.An	אחזי	OF FX	PENSE	ī.g			
		MECAI.	LIUDAI	1011	OF EA	I DINGI	Per ce	mt of		
								anses.		
Maintenand	e of wav	and bui	ldings		_	_	17	.56	\$207,892	28
Maintenand					_	_	12	.23	144,774	
Conducting	transpor	rtation.	_	_	_			.85	637,516	
General ex	penses, ir	cluding	taxes.	_	_	_		.36	171,331	
0,020101	,		·,			_				
Total o	perating	expense	s and	taxes	3, -	-	100	.00	<b>3</b> 1,161,515	<b>2</b> 8
Operating of	expenses	and taxe	es per	mile	of ro	ad. \$	2.010	34		
Operating	expenses	and taxe	es per 1	rain	mile r	nn.	_,	~-		
for trains	s earning	reveni	ie.—1.	742.7	53 mi	les.		66.7		
Proportion	of opera	ting ex	nenses	and	taxes	for		00.,		
Michigan	or ober	our e	родось	· COLLACA	UUI CO	101				
Main line,	••					49	8,213	37		
main imo,	•	-	-	-	-		<b>0,_10</b>	••		
		Leas	ed or I	ropr	ietary 1	Roads.				
Marquette,	Hought	on & O	ntona	m	Railro	od 56	3 165	54		
Marquette	& Wester	rn Railr	oad,	-	-	4	7,781	66		
Total propo	ortion of	ATTAMES	a for N	(ich:	on			— (	<b>8</b> 1,039,160	57
Percentage						-	-	- '	P1,000,100	01
				50,		œ	1,410	31		
Net earning				-	-	- 40	±,±10	46.7		
Net earning	sa har nu	ын шиө,		-	-	-		TU. I		

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#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From St. Ignace to Marquette, December 19, 1881. From Sault St. Marie to Soo Junction, October 10, 1887. From Nestoria to Duluth, September 16, 1888.

#### MAIN LINE.

	Miles. 100ths.	Miles. 100ths.
In Michigan, from Sault St. Marie to Marquette,	153.81	
In Michigan, from St. Ignace to Soo Junction,	42.97	
In Michigan, from Nestoria to Wisconsin State Line,	101.59	
In Wisconsin, from State Line to Iron River Junc-	101.00	
tion,	64.24	
In Wisconsin, from Atlantic Junction to West Superior		
The first section of the section of		
Total length completed,		366.35
BRANCHES.		
Macinaw Lumber, from Mill to St. Ignace,	.59	
Martel, from Furnace to St. Ignace,	1.54	
	.52	
Ozark, from Kilns to Ozark,		
Anna River, from Hallston to Anna River brickyards,	.88	
Prison, from S. Marquette to Prison,	.40	
Palmer, from Negaunee to Volunteer and Grand Rap-		
ids Mines,	7.01	
Metropolis, from Erie Branch M. H. & O., to North		
Republic Mine,	.61	
Riverside, from Erie Branch M. H. & O., to Riverside		
Mine,	.60	
Reduction Works, from W. Republic branch M. H. &		
O., to Republic,	.75	
Wetmore, from Wetmore branch M. H. & O., to Upper	.10	
	21	
Mine,	.51	
Dotys, from Doty Junction M. H. & O., to Dishno	=0	
Kilns,	.73	
*Bessemer, from Bessemer Junction to Ironwood,	5.92	
Total length of branches owned by company,		20.06
		20.00
Total length of branches owned by company in		
Michigan,	20.06	
Total length of road belonging to this company,		386.41
Total length of road belonging to this company		000.11
in Michigan,	318.43	
	010.40	
Aggregate length in Michigan of sidings, spurs,	477.00	
and other tracks not above enumerated,	47.09	
Aggregate length of tracks in Michigan belong-		
ing to this company, computed as single track,		365.52
me of our comband, combaned as small arack,		
Gauge of track, 4 feet $8\frac{1}{2}$ inches.		

<sup>\*</sup>Not yet under operation.

Proprietary or Leased Roads Operated by this		In Michigan.
Name description, and length of each:		
Marquette, Houghton and Ontonagon Railroad, main	04.70	
line,	94.70	104 40
Branches,	39.73	134.43
Marquette & Western Railroad, main line,	18.11	00.00
Branches,	2.72	20.83
Chicago & North Western Railway,	1.51	1.51
Milwaukee & Northern Railroad,	.27	.27
Northern Pacific Railroad,	38.47	
Lake Superior, Terminal & Transfer Railway,	.72	
St. Louis River Bridge,	1.05	
Total,	<b>197.2</b> 8	157.04
Total miles operated by the company,	577.77	469.55
Total miles operated by the company,	011.11	100.00
Number of Bridges and Trestles in Michig	an.	
Wooden bridges, number of 153; aggregate length	feet.	14,996
Iron bridges, number of 7; aggregate length,	foot.	480
Wooden bridges, number of 153; aggregate length, 7; aggregate length, 34; aggregate length, 34; aggregate length,	foot.	7,963
	1000,	
Total, 194;	-	23,439
Crossings—Railroad and Highway.		
What railroads cross your road at grade in this State, a	nd of who	t locality?
Minneapolis, St. Paul & S. S. Marie Railway at Trout	Taba	
	Lake,	1 1
Manistique Railway Co., west of Seney,		
Chicago & Northwestern Railway west of Negaunee,		. 1
Chicago & Northwestern Railway at South Jackson,		. 1
Chicago & Northwestern Railway at Buffalo,		. 1
Chicago & Northwestern Railway at South Buffalo,		1
Chicago & Northwestern Railway at Lucy Mine,	,• -	2
Chicago & Northwestern Railway at Negaunee, near s	tation,	. 1
Chicago & Northwestern Railway at Barnum Mine,		. 1
Chicago & Northwestern Railway at St. Lawrence Min	10,	. 1
Chicago & Northwestern Railway at Lake Angeline,		. 1
Chicago & Northwestern Railway at Winthrop Branch	1, -	. 3
Chicago & Northwestern Railway at Boston Branch,		. 1
Chicago & Northwestern Railway at Dishno Branch,		. 1
Chicago & Northwestern Railway at Republic Branch		. 1
Chicago & Northwestern Railway at Michigamme, ma		. 1
Chicago & Northwestern Railway at Michigamme, mil	l tracks,	. 2
Chicago & Northwestern Railway at Palmer Branch,		. 2
Milwaukee & Northern Railroad at Champion,		. 1
Milwaukee & Northern Railroad at Republic,		. 1
Milwaukee & Northern Railroad at West Republic,		. 1
Milwaukee & Northern Railroad at Republic Mine,		. 1 2
Marquette & Western Railroad at Negaunee station,		_ 2
M. H. & O. Railroad at Lake Street Branch,		. 3
What railroads cross your road either over or under	er your gr	ade in this
State, and where?	. 3	

Over,— Chicago & Nor Under,— Chicago & Nor At what crossin, Chicago & Nor Milwaukee & Nor Milwaukee & Nor What pattern or At Republic,— At Michigamm Number of crossi which there ar Number of crossi Over,—2, under	thwest gs are thwest Norther thwest patter Union ae,—Things of ings of e gates ings of	tern I inter intern I rn Re tern I ns ha Swit he Ra high high	Railro rlocki Railwa iilroad Railwa ve you ch an andolp ways aways	ad at mg an ay at lat R lat R lat R lat Sign ado lat Sign at grant at grant at grant n,	Negard der Rebul epubl Michi- oted? nal Co- erlock ade in	unee. railing olic, ic, gamm ompar ting a this	g swi ne, ny's. nd D State State	erailing	operation? - 1 - 1 - 1
Number of high	vav br	idoes	18 fe	et abo	ve tra	ıck.	-	-	2
Number of high	vay br	idges	less t	han 1	8 feet	t abov	ve tre	ack.	None.
Have safety guar	ds bee	n ere	cted a	t over	r-head	obst	ructio	ons.	Yes.
Are your frogs a	nd gua	rd ra	ils blo	ocked	88 TO	auire	d by	act	
174, session lav	ws of 1	1883,	_	_	_		_		Yes.
How are they tree	ated?	Plank	bloc	ks fitte	ed to s	pace	and r	$\mathbf{newed}$	as required.
				Station					
Number of statio	ns on	whole	line,	_	_	-	-	-	86
Same in Michiga				-		-	-	-	72
Ü	•								
			E	mploy	és.				
Number persons	romile	rlv A	mplov	ro ber		oheo:	Onare	tod	
by company, in Same in Michiga	relndir	ary offi	n pioy	ou oi	1 911 1	duau	obere	iou	1,389
Same in Michiga	n.	ig om	Claib,	-	-	-	•	-	1,331
	,	-	-	-	-	-	-	-	2,002
Classify your em	ployés	as pe	r foll	owing	list:				
	- •	_							NUMBER.
Baggagemen,	-	_	-	_	-	_	_	_	14
Brakemen, Conductors,	_	_	_	-	-	-	-	-	<b>7</b> 9
Conductors,	-	-	-	-	-	-	_	-	· <b>40</b>
Conductors, Engineers, Firemen, Laborers, Shopmon	_	-	_	-		_	-	-	55
Firemen,	-	-	-	_	-	-	-	-	56
Laborers,	-	-	_	-	-	-	-	-	<b>596</b>
опоршен,	-	-	-	_	-	-	-	-	207
rarumen,	_	-	-	-	-	-	-	-	70
Others,	-	-	-	_	-	-	-	-	272
		REP	AIRS	AND I	RENEW	ALS.			
		T.	<sup>T</sup> encin	g in M	fichiau	m			
			0,000,00	y *** 1L					
How many miles	of fer	ncing	have	you?	-	-	-	-	75
Give the number sides of your which needed:	of mil	les re , in	quire Mich	d to digan,	compl and t	ete fe he co	nce b untie	oth s in	

36 1.										
Mackinaw,	-	-	_	-	_	-	-	-	_	
Chippewa,	_	_	_	-	_	_	-	_	_	1
Luce,	_	_	_	_	_	_	_	_	_	
Schoolcraft,	_		_						_	
Alger,	-	•	-	-	-	-	-	-	•	
Marquette,	-	-	-	-	-	-	-	-	-	1
		-	-	-	-	-	-	-	-	î
Baraga,	-	-	-	-	-	-	-	-	-	
Houghton,	-	-	-	-	-	-	-	-	-	
Ontonagon,	-	-	-	-	-	-	-	-	-	
Gogebic,	-	-	-	-	-	-	-	-	-	
Total mi	iles rec	quire	d,	-	-	-	-	-	-	7
				Road 1	B <b>ed</b> at	nd Tra	ck.			
Number of t							-	-	-	77
$\mathbf{A}$ verage leng							-	-	-	6
Average nun	aber of	men	in e	each s	ection	n gang	5, -	-	-	5
Number of n	ew ties	s put	in v	vhole l	line d	luring	the	year,	_	75,000
Number of n	ew tier	в put	in t	rack i	n Mi	chigar	1, _	_	_	73,000
Average nun								_	_	178
New rails				•			•			
Steel (760 to										
Total miles of	of track	k laid	witl	h new	rails.					. 8.
2000 20100	JI VIGO	L IUIU		Bridges			eto .		_	
New bridges	built (	dnein		•						Noi
146# Dilugos	Duite	uuiiii	ւց ա	TO A GOT						
				•				_	-	2.02
				•		STOCI		_	_	Present
Number of le	naam at	iros o	of m	ROLL	ING	STOCI		Number	. 1	
				ROLL ore the	ING	STOCI				Present Estimated Valu
weight, ex	clusive	of te	ende	ROLL ore the	ING an 30	STOCI tons		Number.		Present
weight, exc Number of	clusive locom	of te	ende s of	ROLL ore the	ING an 30	STOCI tons		10	00	Present Estimated Value
weight, exc Number of weight, exc	clusive locome clusive	of te otive of te	ende s of ender	ROLL ore the	ING an 30	tons tons		10		Present Estimated Valu
weight, exc Number of weight, exc Number of	clusive locome clusive locome	of te otive of te otive	ende s of ender s of	ROLL ore the	ING an 30	tons tons		10	00 .2	Present Estimated Value \$666,778 40,643
Number of	clusive locome clusive locome	of te otive of te otive	ende s of ender s of	ROLL ore the	ING an 30	tons tons		10	00	Present Estimated Value
weight, exc Number of weight, exc Number of weight, exc	clusive locome clusive locome	of te otive of te otive	ende s of ender s of	ROLL ore the	ING an 30	tons tons		10	00	Present Estimated Value \$666,778 40,643 1,940
weight, exc Number of weight, exc Number of weight, exc Total,	clusive locome clusive locome clusive	of te otive of te otive of te	ende s of onder s of ende	ROLL ore that r, 20 to r, 10 to r,	30 30 30 50	tons tons tons		10	00	Present Estimated Value \$666,778 40,643
weight, exc Number of weight, exc Number of weight, exc Total,	clusive locome clusive locome clusive	of te otive of te otive of te	ende s of onder s of ende	ROLL ore that r, 20 to r, 10 to r,	30 30 30 50	tons tons tons		10	00 .2	Present Estimated Value \$666,778 40,643 1,940 \$709,361
weight, exc Number of weight, exc Number of weight, exc Total, Number of poing official	clusive locom- clusive locom- clusive	of te otive of te otive of te	ende s of onder s of ende	ROLL ore the r, 20 to f, 10 to r,	30 30 20	tons tons tons clud-	<b>.</b>	10	00	Present Estimated Value \$666,778 40,643 1,940
weight, exc Number of weight, exc Number of weight, exc Total, Number of po ing official Number of	clusive locom clusive locom clusive - assenge cars, passen	of te otive of te of te of te	ende s of onder s of ende - rs—1	ROLL ore the r, 20 to f, 10 to r,	30 30 20	tons tons tons clud-	<b>.</b>	10	00 2 1 3 1	Present Estimated Value \$666,778 40,643 1,940 \$709,361 16,000
weight, exc Number of weight, exc Number of weight, exc Total, Number of poing official Number of official car	clusive locome clusive clusive assenge cars, passen	of te otive of te otive of te	ende s of onder s of ende	ROLL ore the r, 20 to r, 10 to r, 2 whe	an 30 30 20 20 el, in	tons tons tons clud- includ	<b>.</b>	10	00 12 1 3 1	Present Estimated Value \$666,778 40,643 1,940 \$709,361 16,000 183,967
weight, exc Number of weight, exc Number of weight, exc Total, Number of pe ing official Number of official car Number of e	clusive locome clusive locome clusive assenge cars, passen s,	of te otive of te of te of te	ende s of onder s of ende - - cars-	ROLL ore the r, 20 to r, 10 to r, - 2 whe 8 wh	an 30 30 20 el, in	tons tons tons clud- includ	<b>.</b>	10	1 1 3 1 14 13	**Present Estimated Value
weight, exc Number of weight, exc Number of weight, exc Total, Number of pe ing official Number of official can Number of e Number of e	clusive locome clusive locome clusive assenge cars, passen s, express oox frei	of te otive of te otive of te	ende s of onder s of ende - cars- bagg cars,	ROLL ore the r, 20 to r, 10 to r, - 2 whe - 8 wh gage c	an 30 30 20 el, in	tons tons tons clud- includ	<b>.</b>	10 11 11 4 11 81	1 1 3 1 14 13 10	**Present Estimated Value
weight, exc Number of weight, exc Number of weight, exc Total, Number of pe ing official Number of official can Number of e Number of b	clusive locome clusive locome clusive assenge cars, passen s, express oox freiblatform	of te otive of te otive of te er car ager and ight on car	ende s of onder s of ende - cars- bagg cars,	ROLL ore the r, 20 to r, 10 to r, - 2 whe - 8 wh gage c	an 30 30 20 el, in	tons tons tons clud- includ	<b>.</b>	10 11 11 4 11 81	1 3 1 144 130 70	**Present Estimated Value
weight, exc Number of weight, exc Number of weight, exc Total, Number of pe ing official Number of official car Number of e Number of pe Number of pe	clusive locome clusive locome clusive assenge cars, passen s, express ox frei clatforr ore cars	of te otive of te of te of te er car ager and ight on car	ende s of inder s of ende 	ROLL ore the r, 20 to r, 10 to r, - 2 whe - 8 wh gage co	an 30 30 20 20 el, in neel,	tons tons tons clud- includ	<b>.</b>	10 11 11 4 11 81	1 3 1 144 130 70	**Present Estimated Value
weight, exc Number of weight, exc Number of weight, exc Total, Number of pe ing official Number of official car Number of e	clusive locome clusive locome clusive assenge cars, passen s, express ox frei clatforr ore cars	of te otive of te of te of te er car ager and ight on car	ende s of inder s of ende 	ROLL ore the r, 20 to r, 10 to r, - 2 whe - 8 wh gage co	an 30 30 20 20 el, in neel,	tons tons tons clud- includ	<b>.</b>	10 11 11 4 11 81 77 4,04	1 3 1 144 130 70	**Present Estimated Value
weight, exc Number of weight, exc Number of weight, exc Total, Number of pering official Number of official car Number of e Number of pering Number of pering Number of control of the number of con	clusive locome clusive locome clusive assenge cars, passen s, express sox freiblatformere cars conduct	of te otive of te of te er car ager and ight on car s, tors'	ende s of inder s of ende 	ROLL ore the r, 20 to r, 10 to r, - 2 whe - 8 wh gage co	an 30 30 20 20 el, in neel,	tons tons tons clud- includ	<b>.</b>	10 11 11 4 11 81 77 4,04	00 2 1 3 1 1 144 13 10 70 16	**Present Estimated Value
weight, exc Number of weight, exc Number of weight, exc Total, Number of period ing official Number of official car Number of e Number of p Number of control of the Number of control of the cars as	clusive locome clusive locome clusive locome clusive assenge cars, passen s, express ox freiblatformore cars conducts follows	of te otive of te of te er car ager and ight on car s, tors'	ende s of nder s of ende - cars- baggs cars, - way	ROLL ore that r, 20 to r, 10 to r, - 2 whe gage co cars,	an 30 30 20 20 el, in neel,	tons tons tons clud- includ	<b>.</b>	10 11 11 81 77 4,04	00 2 1 3 1 14 13 10 70 16 52	\$666,778 40,643 1,940 \$709,361 16,000 183,967 36,540 396,562 291,306 807,567 38,718
weight, exc Number of weight, exc Number of weight, exc Total, Number of pering official Number of official car Number of a Number of a	clusive locome clusive locome clusive assenge cars, passen s, express sox freiblatformore cars conducts follows follows.	of te otive of te of te er car ager and ight on car s, tors' ws:	ende s of nder s of ende - cars- baggs cars, - way	ROLL ore that r, 20 to r, 10 to r, - 2 whe gage co cars,	an 30 30 20 20 el, in neel,	tons tons tons clud- includ	<b>.</b>	10 11 11 81 77 4,04	00 2 1 	\$666,778 40,643 1,940 \$709,361 16,000 183,967 36,540 396,562 291,306 807,567 38,718 8,648
weight, exc Number of weight, exc Number of weight, exc Total, Number of pering official Number of official car Number of the Number of the Number of the Number of the Number	clusive locome clusive locome clusive locome clusive assenge cars, passen s, express sox freiblatformore cars conducts follows follows.	of te otive of te of te er car ager and ight on car s, tors' ws:	ende s of nder s of ende - cars- baggs cars, - way	ROLL ore that r, 20 to r, 10 to r, - 2 whe gage co cars,	an 30 30 20 20 el, in neel,	tons tons tons clud- includ	<b>.</b>	10 11 11 4 11 81 77 4,04	00 2 1 -3 3 1 1 44 13 10 70 16 52 24 3	\$666,778 40,643 1,940 \$709,361 16,000 183,967 36,540 396,562 291,306 807,567 38,718 8,648 1,410
weight, exc Number of weight, exc Number of weight, exc Total, Number of pering official Number of official car Number of a Number of a	clusive locome clusive locome clusive locome clusive assenge cars, passen s, express sox freiblatformore cars conducts follows follows.	of te otive of te of te er car ager and ight on car s, tors' ws:	ende s of nder s of ende - cars- baggs cars, - way	ROLL ore that r, 20 to r, 10 to r, - 2 whe gage co cars,	an 30 30 20 20 el, in neel,	tons tons tons clud- includ	<b>.</b>	10 11 11 4 11 81 77 4,04	00 22 1 3 1 14 13 10 10 70 16 52 24 3 366	\$666,778 40,643 1,940 \$709,361 16,000 183,967 36,540 396,562 291,306 807,567 38,718 8,648

Number of locomotives equipped with power brakes, 75  Number of passenger-train cars equipped with power brakes, 58  Number of freight cars equipped with power brakes, None.  What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse automatic air brake 29 locomotives; American steam brake 46 locomotives; Westinghouse automatic air brake 58 passenger cars.  Are your freight cars being equipped with automatic couplers as required by Act. No. 147, Session Laws of 1885? Yes.  What pattern or patterns have you adopted for use? Safford.
How are your passenger cars heated? Mason and Baker heaters.  MILEAGE, TRAFFIC, ETC.
Train Mileage.
Miles run by passenger trains during the year, 519,971 Miles run by freight trains during the year, 1,222,782
Total mileage of trains earning revenue, 1,742,753
Passenger Traffic.
Number of through passengers carried, Number of local passengers carried, Total number of passengers carried,  39,353 312,579 351,932
Total passenger mileage, or passengers carried one mile, 13,720,911  Average distance traveled by each passenger, 38.9
Average amount received from each passenger,
Freight Traffic.
Number of tons of through freight carried, Number of tons of local freight carried, 242,785  Number of tons of local freight carried, 242,785
Total tons of freight carried,
Total mileage of through freight, 74,039,703 Total mileage of local freight, 19,665,597
Total freight mileage, or tons carried one mile, 93,705,300
Average ton haul for through freight,

Average amount received Average rate per ton per Average rate per ton per Average rate per ton per	mile mile	e, recei e, recei e, recei	ved f ved for ved for	or thr or loc or all	al frei freigh	ght, t,	_	Rate. lars. Cents. \$0 69.00 01.60 01.30 01.50
Freigi	ht Fo	rwarded	l at M	ichiga	n Stati	ons.		_
Grain,							. 1	Tons. 8,495
Flour,	-	-	-	-	-	-	_	8,504
Provisions (beef, pork, l	ard.	etc.).	-	-	-	-	-	1,992
Animals,	_	-	_	_	-	_	_	2,293
Other agricultural produ	ıcts,	_	_	_	_	_	_	8,580
Lumber and forest prod	ucts,	-	-	-	_	-	-	222,946
Coal,		-	-	-	-	-	-	66,655
Plaster, lime and cement		-	-	-	-	-	-	3,456
Salt, Petroleum,	-	-	-	-	-	-	-	212 2,098
Railroad iron, iron and	أمماء	roila	-	-	-	-	-	23,190
Pig and bloom iron,	30001	rain,	-	-	-	-	-	32,918
Other iron and castings,	-	_	-	-	-	_	_	3,740
Ores,	_	_	_	_	-	_		1,520,886
Stone, brick and sand,	<b>-</b>	<b>-</b>	-	-	-	-	-	21,381
Manufactures,—articles	shipp	ped fro	m poi	int of	$\mathbf{produ}$	ction	<b>1,</b> -	13,827
Merchandise and other a	articl	es not	enum	erate	d abov	е, _	-	76,819
Total forwarded,								2,017,992
Loui Ioi Wai dod,	-	· -	-	-	-	-		B,011,002
Tonnage	of A	rticles I	ransp	orted	–Entir	e Ro	ad.	
							Tons.	Per Cent.
Grain,	_	_	-	_	- '	_	23,017	
Flour,		<b>-</b> ,	_	-	-	_	10,752	
Provisions (beef, pork, l	ard,	etc.),	-	-	-	-	1,997	
Animals,		-	-	-	-	-	2,547	
Other agricultural produ	icts,	-	-	-	-	-	10,876	
Lumber and forest prod Coal.	ucus,	-	-	-	-	-	236,559 66,655	
Plaster, lime and cement	- ŀ.		-	-	-	-	3,456	
Salt,	٧,	-	-	-	-	-	212	
Petroleum,	-	-	-	-	-	-	2,098	
Railroad iron, iron and a	steel	rails,	-	_	-	_	23,234	
Pig and bloom iron,	_	- 1	_	_	-	_	32,918	1.601
Other iron and castings,	-	-	-	-	-	-	3,740	
Ores,	-	-	-	-	-	-	1,520,886	73.993
Stone, brick and sand,	<b>L</b>	- i -		- I	_ J	-	21,381	1.040
Manufactures,—articles	snip	pea rro	m po	nt or	produ	ıc-	13,880	.675
Merchandise and other a	rtial	es not	- Anıım	areto	- l ahos	- 744	81,249	3.953
Marcingulate and outer 8	et otot	UUL GO.	JIIUII	01010		٠,		
Total tons carried, 37	-	-	-	-	-	-	2,055,457	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company does a general business. For a tonnage equal to 5,844 pounds carried 410 miles daily the remuneration is \$1,875.00 per month; tonnage carried less than 410 miles is reduced to tonnage carried 410 miles; excess is paid at proportionate rate; contract dated December 15, 1889; previously 1½ times first-class freight rates; freight is delivered at depots.

#### Telegraph.

Number of miles of telegraph on your road,	and	to wh	om does	it belong?
Marquette, Houghton & Ontonagon railroad,		-	-	105
Marquette & Western railroad,	-	-	-	13
Western Union Telegraph Co., used jointly,	-	-	-	365
Total miles,	_	_	_	483

#### Transportation Companies.

#### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Co., of New York City, amount paid \$6,274.27.

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

February 20, Patrick McBride, woodman, Newberry. Attempted to board a moving train while intoxicated.

March 19, Frank La Londe, laborer, Au Train. Attempted to board a

moving train while intoxicaled.

July 16, Michal Higgins, ore trimmer, Marquette. Wrestling and fell in front of moving train.

August 9, John Whinter, laborer, Marquette. Intoxicated and run over by train.

August 13, Frank Mangan, lumberman, St. Ignace. Intoxicated and run over by train.

August 31, Louis Litzner, farm laborer, Allenville. Hand car lever broke his neck; accidental.

September 24, Richard Smith, section laborer, Thomaston. Caught on bridge with hand car by train: accidental.

November 1, John Murphy, brakeman, Champion. Fell from train; carelessness.

November 21, Charles Reinhardt, engineer, Marquette. Runaway train; lack of caution.

December 16, John Breen, lumberman, Ewen. Found dead on track. December 21, Herman Luthihern, laborer, Newberry. Intoxicated and struck by train.

#### INJURED.

January 13, John Pessier, brakeman, Onata. Coupling.

February 18, John Cameron, teamster, Eckerman. Car got away from brakeman and collided with car where this man was unloading horses; accidental.

March 29, Gust. Autus, section laborer, East Branch. Thrown from hand car; accidental.

April 12, James Stack, locomotive fireman, Trout Creek. Cleaning engine ash pan when engineer started engine; accidental.

May 2, Octave Oyotte, switchman, Marquette. Fell from car; careless-

ness.

May 7, Edw. Lafiniere, brakeman, Humbolt. Coupling; carelessness.
 May 31, Mike Bunneau, Indian, Sault St. Marie. Struck by train; lack of caution.

May 23, James McCombs, sectionman, East Branch. Rail thrown against his leg; accidental.

June 26, John McCormick, laborer, Ishpeming. Attempted to board

moving train; carelessness.

July 15, William Mianis, lumberman, Hill Creek. Getting off moving train; carelessness.

September 26, John McDonald, carpenter, Kitchi. Struck by plank that fell from bridge; carelessness.

November 21, George LaLtiberty, fireman, Marquette. Runaway train;

lack of caution.

November 21, Adolph Demerest, brakeman, Marquette. Runaway train; lack of caution.

TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Cause of Accident.		Killed,		Injured,				
cam a nomin.	Passengers.	Employés.	Others.	Passengers.	Employés,	Others.		
ollisions								
oupling carserailments					2			
alling from trains		î			ĭ			
rogsetting on and off trains	.   Z							
ighway crossings			1					
verhead obstructions								
respassers on trainsrespassers on tracks			5	 				
Total	2		6		9			

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	11
Number of persons injured during the year,	13
Number of casualties purely accidental,	6
Number resulting from lack of caution, carelessness, or	
misconduct,	18
Persons killed or injured while intoxicated,	8
Trespassers and tramps killed or injured,	6
Suicides.	

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen Brakemen Conductors	1	п:	4
Conductors Engineers Firemen Laborers Shopmen	1	: :	1 2 2
Yardmen Not classified above	l	1	1 1
Total	2	. 9	11

STATE OF NEW YORK, SS.

James McMillan, President, and W. A. C. Ewen, Treasurer. of the Duluth, South Shore & Atlantic Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

JAMES McMILI AN. W. A. C. EWEN.

Subscribed and sworn to before me this 27th day of March, A. D. 1890, by W. A. C. Ewen, Treasurer.

WILLIAM H. CLARISON,

Commissioner for Michigan in N.w York.

Subscribed and sworn to before me this 2d day of April, A. D. 1890, by James McMillan, President.

WILLIAM R. BATES.

Commissioner for Michigan in the District of Columbia.

#### ANNUAL REPORT

#### OF THE

## MARQUETTE, HOUGHTON & ONTONAGON RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed April 17, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES McMILLAN, Detroit, Mich. Secretary, L. M. SCHWAN, New York City. Treasurer, W. A. C. EWEN, New York City. Transfer Agent, A. O. BEEBE, New York City.

#### DIRECTORS.

James McMillan, Detroit, Mich.
Hugh McMillan, Detroit, Mich.
Calvin S. Brice, New York City.
Geo. I. Seney, New York City.
Edward Tuck, New York City.
Henry W. Cannon, New York City.
Geo. H. Church, New York City.
Grant B. Schley, New York City.
Chas. H. Johnson Jr., New York City.
Terms expire July 18, 1890.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

when chartered or articles of association filed,—Sep	temo	er z,	1912	•				
Number of stockholders at date of last election,	-	-	-	-	-	-	2	02
Number of stockholders in Michigan at same date,	-	-	-	-	-	-		10
Amount of full paid stock held in Michigan at same	date,	-2,	285 s	hare	s.			
Date of annual meeting of stockholders,—Third Thu	abarı	y of	July.	,				
Fiscal year of company ends, December 31.		-						
General offices of the company are located at Marqu	ette,	Mich	ı., an	d 10	Wall	St.	N.	Y.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter	or ar	ticles	of a	association,	-	<b>\$</b> 5,657, <b>12</b> 6 67
Par value of shares, Average price received per		\$10				
share, No. of shares isued, Amount paid in on common, Amount paid in on preferred,	-	57,5' -	00 71 -	\$2,378,670 3,278,456	67 00	
Total amount paid in, as per bo	ooks	of the	co		<del>-</del>	<b>\$</b> 5,657,126 67
Paid in per mile of road owned l —155.26 miles,	b <b>у с</b> о -	mpan	7 <b>,</b> -	<b>\$</b> 36, <b>4</b> 36	47	

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest,	When Due,	Where Payable,	Amount Outstanding.
M., H. & O., May 25, 1872. M., H. & O., March 1, 1878. M., H. & O., May 1, 1883. M., H. & O., April 1, 1885.	8% 8% 8%	June 1, 1892 March 1, 1908 June 1, 1923 April 1, 1925	New York New York New York New York	\$1,880,500 00 576,200 09 1,500,000 00 1,400,000 00
Total funded debt				\$4,856,700 00

#### UNFUNDED DEBT.

Unfunded Debt,	_ No	ne.
RECAPITULATION.		
Total funded debt,	<b>\$4</b> ,856,700	00
Total debt liabilities,	<b>\$4</b> ,856,700	00
Amount of debt liabilities per mile of road,—155.26 miles,	31,281	08
Total amount of stock and debt,	<b>\$10,513,826</b>	67
Stock and debt per mile of road,—155.26 miles,	67,717	<b>55</b>
INTEREST ON THE FUNDED DEBT.		
What is the amount due each year,—For 1889, Was it paid for the last year? Yes.	\$319,352	00

#### COST OF ROAD AND EQUIPMENT.

Total expended for construction and equipment, Average cost per mile of road, not including sidings,	-	<b>\$</b> 8,624,347 15
155.26 miles, Proportion of cost of construction for Michigan,	-	55,547 77 8,624,347 15

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

Marquette to Houghton, July, 1883. Humbolt to Republic, September, 1882.

named to republic, coptement, recor		
MAIN LINE.		Miles, 100ths, Miles, 100ths,
Length completed in Michigan,		94.70
Total length completed,		94.70
BRANCHES.		
Boston, from Boston Junction to Boston & American Mines,	2.06	
Beaufort, from Beaufort Junction to Beau-	1.76	
fort & Titan Mines, Buffalo, from M. & W. R. R. to Buffalo,		
South Buffalo & Queen Mines, Champion, from Champion Junction to	.58	
Champion, Detroit Brownstone, from M. & W. R. R.	1.03	
to Detroit & Marquette Brownstone quarry,	.98	
Dexter, from Dexter Junction to Dexter Consolidated Mine,	2.60	
Eagle Mill, from M. & W. R. R. connecting with M. H. & O.,	.62	
Erie, from Republic to Erie & Magnetic Mines,	4.90	
Hartford, from M. & W. R. R. to Hartford Mine, we own one-half jointly with C. &		
N. W., Iron Valley, from M. & W. R. R. to Iron	.19	
Valley Mines, Lake Street, from D. S. S. & A. R'y near	.45	
Garden St. to Lighthouse Point, L'Anse, from L'Anse Junction to end Mer-	1.47	
chandise pier, Linden, from Linden Junction to Linden	.78	
Brownstone quarry, Michigamme, from Michigamme to Read's	.30	
Mills,	1.00	

		Miles. 100ths. Miles. 100ths.
Negaunee, from M. & W. R. R. to Negaunee	70	
=:· ··· =- j,	38	
	47	
	18	
	50	. •
Republic yard, from Republic to end of	70	
Mine yard, we own one-third jointly with C. & N. W. R'y and M. & N. R. R., Saginaw, from Winthrop Junction to Sag-	27	
	85	
Mine,	22	
	56	
Webster, from Wetmore branch to Webster Mine,	53	
West Republic, from Erie branch to West Republic Mine, 1.	06	
Winthrop upper, from Winthrop branch to Brasted Mines, we own one-half jointly with C. & N. W. R'y, Winthrop lower, from Winthrop Junction	66	
to Winthrop & Mitchell Mines, 1.	93	
Total length of branches,—miles, 39.	73	
Total length of branches owned by company, Total length of branches owned by company	in	39.73
Michigan, Total length of road belonging to this company,	-	39.73 ————————————————————————————————————
Total length of road belonging to this company	in	134.43
Michigan, Aggregate length of sidings, spurs, and oth	- er	104.40
tracks not above enumerated, Same in Michigan,	-	<b>40.26</b>
Aggregate length of tracks belonging this compar computed as single track,	ıy, -	174.69
Same in Michigan,	_	174.69
Gauge of track, 4 feet 8½ inches.		•

STATE OF NEW YORK, COUNTY OF NEW YORK, Ss.

James McMillan, President, and L. M. Schwan, Secretary, of the Marquette, Houghton & Ontonagon Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed,

JAMES McMILLAN, President. L. M. SCHWAN, Secretary.

Subscribed and sworn to before me this 27th day of March, A. D. 1890, by L. M. Schwan, Secretary.

WILLIAM H. CLARKSON,

Commissioner for Michigan in New York.

Subscribed and sworn to before me this 2d day of April, A. D. 1890, by James McMillan, President.

WILLIAM R. BATES,

Commissioner for Michigan in the District of Columbia.

38

#### ANNUAL REPORT

OF THE

#### MARQUETTE & WESTERN RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed April 17, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES McMILLAN, Detroit, Mich. Secretary, L. M. SCHWAN, New York City. Treasurer, W. A. C. EWEN, New York City. Transfer Agent, A. O. BEEBE, New York City.

#### DIRECTORS.

James McMillan, Detroit, Mich. Calvin S. Brice, New York City. Geo. I. Seney, New York City. Edward Tuck, New York City. S. F. Sullivan, New York City. Grant B. Schley, New York City. Henry W. Cameron, New York City.

Terms expire July 18, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—October 12, 1883.

Number of stockholders at date of last election, - - - - 8

Date of annual meeting of stockholders,—Third Thursday of July.

Fiscal year of company ends December 31.

General offices of the company are located at Marquette, Mich., and 10 Wall St. N. Y.

#### REMARKS.

All Marquette & Western Railroad bonds have been destroyed and the mortgages discharged. In their place a new mortgage has been created, M. & W. joining, and the bonds of the M. H. & O. R. R. Co., issued. All the M. & W. shares are in the treasury of the M. H. & O. R. R. . The M. & W. is to be operated perpetually by the M. H. & O. R. R. or its assigns. Possession was given in May 1885.

#### ANALYSIS OF CAPITAL STOCK.

ANALYSIS OF CAPITAL STOCK.	
Amount authorized by charter or articles of association, Par value of shares, Average price received per share, No. of shares issued, Amount paid in on common, Amount paid in on preferred, Security of the s	1,250,000 00
Total amount paid in, as per books of the company, _ \$	1,250,000 00
Paid in per mile of road owned by company,—miles, 20.83,	•
ANALYSIS OF DEBT ACCOUNTS.	
FUNDED DEBT.	
Funded debt,	None.
UNFUNDED DEBT.	
Unfunded debt,	None.
DESCRIPTION OF ROAD:	
Date when the road was opened for use between its present to June, 1884.  MAIN LINE.	termini:
Miles, 100t	hs. Miles. 100ths.
Length completed in Michigan, 18.11	•
Total length completed,	18.11
BRANCHES.	
Teal Lake, from C. & N. W. crossing to Detroit mine, Lake Angeline, from Ishpeming to Lake Angeline, .63	
Total length of branches,—miles, 2.72	
Total length of branches owned by company, Total length of branches owned by company in Michigan, 2.72 Total length of road belonging to this company,	2.72
Total length of road belonging to this company in Michigan,  Aggregate length of sidings, spurs, and other tracks not above enumerated,  Same in Michigan,  Aggregate length of tracks belonging to this company, computed as single track,	8.85 
Same in Michigan, 29.68 Gauge of track, 4 feet 8½ inches.	

STATE OF NEW YORK, COUNTY OF NEW YORK, ss.

James McMillan, President, and L. M. Schwan, Secretary, of the Marquette & Western Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt and other matters therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JAMES McMILLAN, President. L. M. SCHWAN, Secretary.

Subscribed and sworn to before me this 27th day of March, A. D. 1890, by L. M. Schwan, Secretary.

WILLIAM H. CLARKSON.

Commissioner for Michigan in New York.

Subscribed and sworn to before me this 2d day of April, A. D. 1890, by James McMillan, President.

WILLIAM R. BATES,

Commissioner for Michigan in the District of Columbia.

#### ANNUAL REPORT

#### OF THE

## TOLEDO, ANN ARBOR & NORTH MICHIGAN RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed April 23, 1889.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JAMES M. ASHLEY, Toledo, Ohio.

First Vice President, ALMA W. WRIGHT, Alma, Mich.

Second Vice President and General Manager, HENRY W. ASHLEY, Toledo, O.

Secretary, C. F. COOK, Toledo, Ohio.

Asst. Secretary, F. S. CHANDLER, Toledo, Ohio.

Auditor, GEORGE B. PARK, Toledo, Ohio.

Treasurer, B. F. JERVIS, Toledo, Ohio.

Superintendent, J. B. CONNERS, Owosso, Mich.

Superintendent of Telegraph, J. B. CONNERS, Owosso, Mich.

Cashier, J. M. MELICK, Toledo, Ohio.

General Passenger Agent, A. J. PAISLEY, Toledo, Ohio.

General Freight Agent, W. H. BENNETT, Toledo, Ohio.

Attorney, HUNTSBERGER & ASHLEY, Toledo, Ohio.

#### DIRECTORS.

J. M. ASHLEY, Toledo, Ohio.

A. W. WRIGHT, Alma, Mich.

H. W. ASHLEY, Toledo, Ohio.

John Cummings, Toledo, Ohio.

T. W. CHILD, Toledo, Ohio.

WILLIAM BAKER, Toledo, Ohio.

DAVID ROBISON JR., Toledo, Ohio.

E. A. Todd, Owosso, Mich.

I. A. FANCHER, Mt. Pleasant, Mich.

J. M. ASHLEY JR., Toledo, Ohio.

S. Dean, Ann Arbor, Mich.

Terms expire April 17, 1889.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—October 16, 1880, amended November 30, 1886.

Number of stockholders at date of last election,

#### MICHIGAN RAILROAD RETURNS.

[Dec. 31,

Number of stockholders in Michigan at same date,	9
Amount of full paid stock held in Michigan at same date,	<b>\$10,300</b>
Date of annual meeting of stockholders—Third Wednesday in April each year.	
Fiscal year of company ends,—December 31.	,
General offices of this company are located at Toledo. Ohio.	

#### GENERAL EXHIBIT.

	DEBIT.	CREDIT.
Total income, Total expenses, including taxes, -	\$668,130 69	<b>\$</b> 1,014,306 98
Net income,		346,176 29
Interest on funded debt, \$294,800 0 Interest on unfunded debt, 7,951 8 Rentals of buildings, tracks, etc., 10,122 9	4	
Balance for the year,	- 9012,014 10	<b>\$</b> 33,301 51
Balance (profit and loss) last year, Balance forward to next year,	<b>\$106,149 47</b>	72,847 96
	<b>\$106,149 47</b>	\$106,149 47
ANALYSIS OF CAPITAL	L STOCK.	
Amount authorized by charter or articles of	association,	<b>\$</b> 5,300,000 <b>00</b>
Par value of shares, Sign 100 0 No. of shares issued, Sign 53,00		
Amount paid in on common,	<b>\$5,300,000 00</b>	
Total amount paid in as per books of the c	ompany,	<b>\$</b> 5,300,000 00
Paid in per mile of road owned by compan—248 miles,	\$21,370 96	
	•	

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.
1st m't'g gold bond T., A. A. & G. T. Jan., 1880. 1st m't'g gold bond T., A. A. & N. M. May, 1883. 1st m't'g gold bond T., A. A. & Mt. P. Mar., 1887. 1st m't'g gold bond T., A. A. & C. Mar., 1887.	6% 6% 6%	1921 1924 1916 1917	New York New York New York New York	\$1,260,000 00 2,120,000 00 400,000 00 1,260,000 00
Total funded debt				\$5,040,000 00

#### UNFUNDED DEBT.

For What Incurred.	Is the Sar	ne to be	Funde	d or How Li	quidat	ed.	Amoun	t.
For Construction	To be paid fr	om earni	nøs				\$267,2	88 24
For Real Estate								
For Renewals For Miscellaneous	To be paid fr To be paid fr	om earni	ngs					00 00
Total unfunded debt	•••••						\$688,8	65 74
	RECAP:	ITULAI	ion.					
M-4-1 4 3-3 3-1-4						ar.	040 000	00
Total funded debt, Total unfunded debt,		-	-	-	-		040,000 638,865	
Total debt liabilities,			-	-	-	<b>\$</b> 5,	678,865	74
Amount of debt liabilities	per mile	of roa	d,—2	48 miles	,		22,898	65
Total amount of stock	and deb	t, -			-	<b>\$</b> 10,	978,865	74
Stock and debt per mile or	f road,—	248 mi	les,	•	-		44,269	61
GENE	RAL BAL	ANCE	SHE	ET.—Dr.				
Construction account, Equipment account,	 	-	8	89,932,10 867,29		<b>@</b> 10	799,393	47
Cash items:	-	_	-	\$17,51		Ф10,	เ ขอ,บอบ	#1
Due from agents,	-	-	-	84,66	4 57		102,183	<b>2</b> 9
Other assets:  Materials and supplies, Debit balances from compa	nies and	- indivi	luals	\$40,91 , 142,52		,	183,438	45
Total,	_	_	_		_		085,015	
GENE	RAL BAI	LANCE	SHE	ETCr.				
G 4.1 4 1				<b>P</b> 000 00				
Capital stock,	-	-	- }	\$5,300,00				
Funded debt,	-	-	-	5,040,00	U 00	<b>\$</b> 10,	340,000	00
Unfunded debt:								
Interest unpaid,	-	-	-	<b>\$54,40</b>				
Notes payable,	_	-	-	67,14				
Vouchers and accounts,	-	-	-	250,05	3 23			
Other liabilities:				00= 00				
Car trust warrants,	-	-	-	267,26	5 24		<b>∂</b> 00 0 <b>0</b> ≥	- A
Profit and loss or income a	accounts.		-				638,865 106,149	
	-,							
Total,	-	•	-	-	•	ΦŢŢ,	085,015	41

**\$206,063 90** 

COST OF	ROA	D ANI	EQ1	JIPM	ENT.			
Total Cost for Construction and	Equip	nent of	Road	and B	ranche	es Bui	lt by Compo	ıny.
Total expended for construct Average cost per mile of	tion ar	id equ not in	ipmer cludi	nt, ng si	_ dings,	_ <b>\$</b> :	10,799,393	
248 miles, Proportion of cost for Michi	gan,	-	-	-	-	-	43,545 10,581,663	
CHARGES AND CRED		O PRO		Y DU:	RING	THE	YEAR.	
Extensions and new sidings, New locomotives,	-	-	-	-	-	-	<b>\$</b> 11,557 8,373	
New cars,	-	-	-	-	-	-	159,305	15
Total,	- '	-	-	-	-	-	<b>\$179,236</b>	10
Total charges to property ac Property sold and credited,	count -	as abo	ve,		9, <b>236</b> 5,300			

Net credit to property account,

# ANALYSIS OF EARNINGS.

## PASSENGER EABNINGS.

Roads.	Local Fares.	Through Fares.	Through Passenger and Fares. Baggage.	Express and Baggage.	Mails.	Other Sources.	Total.	Proportion For Train Mile.	Per Train Mile.	Per Mile of Road.
Main line and branches.	\$202,105 74		\$1,827 66 \$205,458 89	\$14,740 00	\$22,212.72		\$240,896 11	\$240,896 11 \$235,539 60	\$0 81.88	08 696\$
Leuseu or Fromesing Koods. Toledo, Saginaw & Mackinaw Railway	28,100 62		28,100 62	2,302 26	1,888 70		27,241 58	27,241 58	40.82	966
Total passenger department earnings	\$225,206.86		\$1,827 65 \$220,584 01 \$17,042 26 \$24,061 42	\$17,042.26	<b>\$24</b> ,061 42		\$267,627 69	\$267,627 69 \$262,781 18	\$0.76.45	\$981.85

## FREIGHT EARNINGS.

Roeds.	Local Traffic.	Through Traffic.	Total Traffic.	Other Sources.	Total.	Proportion Per for Michigan. Train Mile.	Per Train Mile.	Per Mile of Boad.
Main line and branches	\$549,389.39	\$28,915 28	\$578,304 62 \$28,589 88	\$28,589 88	\$666,844.50	\$594,609 78	\$1 56.11	\$2,446 94
Leusev or Frogrescing Acoust. Toledo, Saginaw & Mackinaw Railway	28,897 30	54,598 69	77,990 99	266 60	78,557 59	78,567 59	2 94.56	20 7007
Total freight department earnings	\$572,786 69	\$8 909'89 <b>\$</b>		\$656,395 61 \$29,106 48	\$662,402 09	\$665,402 09 \$678,167 82	\$1 65.00	\$2,886 50

Total transportation ea	arnings,		_	_	-	-	<b>\$</b> 953,029	78
Transportation earnings Transportation earnings Miscellaneous receipts account, other than for the follows:	per trai	in m perat	ile, ting	;	3,318 1	34 24.5	0	
From telegraph, From rentals of tracks or t From other sources,	erminals -	- 3, -	-	ł	992 57,239 3,044	95		
Total,	-	-	-	-	-	-	<b>\$</b> 61, <b>277</b>	20
Distribution of miscella between main line and le tary roads:								
Company	•			м	Total	ons.	Proportion Michigan	for
Toledo, Ann Arbor & Nor	th Michi	igan ]	R'y,		61,277		\$60,041	
Total earnings from o	peration	of ro	ad,	-	-	-	<b>\$1</b> ,01 <b>4</b> ,306	98
Total earnings per mile Total earnings per train m	ile,	_	-	:	<b>\$</b> 3,531 1	71 32.5		
Proportion of taxable earnings per Michigan,	ngs for M mile of	lichig roac	gan, l in	-	- <b>\$</b> 3,5 <b>2</b> 9	- 37	995,990	21
Total income from all	sources,	-	_	_	-	-	<b>\$1,014,306</b>	98
Proportion of income for I	Michigan	١,	-	-	-	_	996,648	44
AN	ALYSIS	OF I	EXPE	ISES	<b>.</b>			
Class 1.—	Maintena	nce of	Way o	and I	Buildin	gs.		
Repairs of road way and t	rack,	-	_	-	-	-	<b>\$</b> 91,611	
Renewals of ties,	,	-,	-		- ,	-	6,039	
Repairs of bridges, includ	ing cuive	erts a	na ca	ttie 8	guards	, -	8,542	
Repairs of fences, road cro Repairs of buildings,	besinge, e	and si	igns,	-	-	-	. 10,757 21,975	20
repairs of buildings,	-	-	-	-	-	-	21,910	00
Total,	-	-	-	-	-	-	<b>\$138,926</b>	86
CLASS 2.—Mo	intenanc	cof I	Motive	Powe	er and (	Cars.		
Repairs of locomotives,							<b>\$</b> 38,744	03
Repairs of passenger cars,	-	-	-	-	-	-	17,929	
Repairs of freight cars,	-	-	-	-	-	_	43,661	
Total,	_	_	_	_	_	_	<b>\$100,335</b>	
·	- 3.—Condi	.ctina	Trans	porte	ition.	_		
				_			<b>01</b> 19 500	91
Fuel for locomotives, Water graphy	-	-	-	-	-	-	\$113,506 3 499	
Water supply, Oil and waste,	-	-	-	-	-	-	3,422 5,043	
On and waste,	-	-	-	-	-	-	0,040	50

TOLEDO, ANN ARBOR & NORTH MICHIGAN RY CO. 307   Locomotive service,												
Passenger train service,	1889.]	TOLED	О, А	ANN	ARBOR	å	NORTH	MIC	HIGAN	R'Y	co.	307
Passenger train service,	Locomotiv	re servic	æ.	_							<b>\$</b> 52.796	95
Passenger train supplies,					-	_	-	-	-	-		
Freight train supplies	Pessenger	train or	innl	, - ioa	-	-	-	-	-	-		
Freight train supplies,	Eroight tr	oin gory	igo	106,	-	-	-	-	-	-		
Mileage of freight cars,       38,792 43         Telegraph expenses (maintenance and operating),       14,612 79         Damage and loss of freight and baggage,       750 02         Damages to property and cattle,       2,780 71         Personal injuries,       4,083 35         Agents and station service,       56,606 53         Station supplies,       2,260 99         Total,       \$353,819 94         Class 4—General Expenses.         Salaries of the general officers of the company,       \$11,962 50         Salaries of clerks in general offices,       18,959 37         Law expenses,       3,538 60         Insurance,       2,320 07         Stationery and printing,       11,583 74         Outside agencies and advertising,       545 40         Contingencies,       10,598 12         Taxes,       15,540 64         Total,       *75,048 44         RECAPITULATION OF EXPENSES.         Maintenance of way and buildings,       20.79         Maintenance of motive power and cars,       15.02         Conducting transportation,       52.96         General expenses, including taxes,       100.00         Total operating expenses and taxes per train mile run, for trains earning revenue,—765,428 miles, <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td><b>-</b>.</td> <td>-</td> <td></td> <td></td>					-	-	-	-	<b>-</b> .	-		
Telegraph expenses (maintenance and operating),   14,612 79	Miles as a	em supp	TIGE	, -	-	-	• -	-	-	-		
Damages and loss of freight and baggage, 750 02 Damages to property and cattle, 2,780 71 Personal injuries, 4,083 35 Agents and station service, 56,606 53 Station supplies, 2,260 99  Total, \$353,819 94  Class 4—General Expenses.  Salaries of the general officers of the company, \$11,962 50 Salaries of clerks in general offices, 18,959 37 Law expenses, 3,538 60 Insurance, 2,320 07 Stationery and printing, 11,583 74 Outside agencies and advertising, 545 40 Contingencies, 10,598 12 Taxes, 10,598 12 Taxes, 15,540 64  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 20,79 Maintenance of motive power and cars, 15,02 Conducting transportation, 52,96 General expenses, including taxes, 11,23 Total operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—765,428 miles, Proportion of operating expenses and taxes for Michigan: Main line, 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39	Mileage of	r rreign	Car	ъ, -		-	a	、	-	-		
Damages to property and cattle,   2,780 71	Telegraph	expense	<b>68</b> (3	maun	tenance	an	a operat	ang),	-	-		
Personal injuries,	Damage a	nd loss (	ot n	tergr	itand b	agg	age,	-	-	-		
Agents and station service,   56,606 53	Damages 1	to prope	rty	and	cattle,	-	-	-	-	-		
Station supplies,	Personal i	njuries,	-	-	-	-	-	-	-	-		
Class 4.—General Expenses	Agents an	d station	a se	rvice	) <b>,</b>	_	-	-	_	_	56,606	53
Salaries of the general officers of the company,   \$11,962 50	Station su	ıpplies,	_	-	-	_	_	_	-	_	2,260	99
Salaries of the general officers of the company,   \$11,962 50		••										
Salaries of the general officers of the company,   \$11,962 50	Total.			_	_	_	_	_	_	_	<b>\$353.819</b>	94
Salaries of the general officers of the company,   \$11,962 50	,							_	_	_	************	
Salaries of clerks in general offices,   18,959 37   Law expenses,   3,538 60   Insurance,   2,320 07   Stationery and printing,   11,583 74   Outside agencies and advertising,   545 40   Contingencies,   10,598 12   Taxes,   15,540 64    Total,   RECAPITULATION OF EXPENSES.   Par Cent of Expenses.				C	LASS 4.—(	Gen	eral Exp	enses.				
Salaries of clerks in general offices,   18,959 37   Law expenses,   3,538 60   Insurance,   2,320 07   Stationery and printing,   11,583 74   Outside agencies and advertising,   545 40   Contingencies,   10,598 12   Taxes,   15,540 64    Total,   RECAPITULATION OF EXPENSES.   Par Cent of Expenses.	Salaries of	f the ge	ners	al off	icers of	the	compan	₩.			<b>\$</b> 11.962	50
Law expenses,   3,538 60   Insurance,   2,320 07   Stationery and printing,   11,583 74   Outside agencies and advertising,   545 40   Contingencies,   10,598 12   Taxes,   15,540 64							· · · · ·	-3,	-	-		
Insurance,   2,320 07			_	OHOL	di Omook	٠,	-	-	-	-		
Stationery and printing,			-	-	-	-	-	-	-	-		
Outside agencies and advertising, 545 40 Contingencies, 10,598 12 Taxes, 155,40 64  Total, RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 20.79 \$138,926 86 Maintenance of motive power and cars, 15.02 100,335 45 Conducting transportation, 52.96 353,819 94 General expenses, including taxes, 11.23 75,048 44  Total operating expenses and taxes, 100.00 \$668,130 69  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue, 765,428 miles, Proportion of operating expenses and taxes for Michigan: Main line, 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39				-	-	-	-	-	-	-		
Contingencies, 10,598 12 Taxes, 15,540 64  Total, 875,048 44  RECAPITULATION OF EXPENSES.    Par Cent of Expenses.	Stationery	and pr	աա	īŘ,	· ·	-	-	-	-	-		
Total,			ma i	aave	rusing,	-	-	-	-	-		
### Total, #### Total, ####################################		cies,	-	-	-	-	_	-	-	-		
Maintenance of way and buildings, 20.79 \$138,926 86 Maintenance of motive power and cars, 15.02 100,335 45 Conducting transportation, 52.96 353,819 94 General expenses, including taxes, 11.23 75,048 44  Total operating expenses and taxes, 100.00 \$668,130 69  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue, -765,428 miles, Proportion of operating expenses and taxes for Michigan:  Main line, - 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39	Taxes,	-	-	• -	-	-		-	-	-	15,540	<b>64</b>
Maintenance of way and buildings, 20.79 \$138,926 86 Maintenance of motive power and cars, 15.02 100,335 45 Conducting transportation, 52.96 353,819 94 General expenses, including taxes, 111.23 75,048 44  Total operating expenses and taxes, 100.00 \$668,130 69  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue, -765,428 miles, 87.2  Proportion of operating expenses and taxes for Michigan:  Main line, - 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39	Total,	-	-	-	-	-	-	-	-	-	\$75,048	44
Maintenance of way and buildings, 20.79 \$138,926 86 Maintenance of motive power and cars, - 15.02 100,335 45 Conducting transportation, 52.96 353,819 94 General expenses, including taxes, 11.23 75,048 44  Total operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—765,428 miles, Proportion of operating expenses and taxes for Michigan: Main line, - 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39				RECA	PITULAT	rio:	N OF EX	PENS	ES.			
Maintenance of way and buildings, 20.79 \$138,926 86  Maintenance of motive power and cars, 15.02 100,335 45  Conducting transportation, 52.96 353,819 94  General expenses, including taxes, 11.23 75,048 44  Total operating expenses and taxes, 100.00 \$668,130 69  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—765,428 miles, Proportion of operating expenses and taxes for Michigan:  Main line, - 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39												
Maintenance of motive power and cars,	Maintenan	ce of wa	LV A	nd b	mildings	ı.			20.7	79	\$138 926	86
Conducting transportation, 52.96 353,819 94 General expenses, including taxes, 111.23 75,048 44  Total operating expenses and taxes, 100.00 \$668,130 69  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—765,428 miles, 87.2  Proportion of operating expenses and taxes for Michigan:  Main line, 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39								_		_	100,020	45
Total operating expenses and taxes, 100.00 \$668,130 69  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—765,428 miles, Proportion of operating expenses and taxes for Michigan:  Main line, 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39	Conduction	a transan	Out 11	tion	WOI and	Cai	, -	-				
Total operating expenses and taxes, - 100.00 \$668,130 69  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—765,428 miles, 87.2  Proportion of operating expenses and taxes for Michigan:  Main line, 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39						-	-	-				
Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—765,428 miles, Proportion of operating expenses and taxes for Michigan: Main line,  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway,  82,326 36  87.2  87.2  Proportion of operating expenses and taxes for Michigan:  573,863 36  Leased or Proprietary Roads.	Collegal 67	грепвев,	шеі	·uum	ig mixes,			-		10 	10,040	44
Operating expenses and taxes per train mile run, for trains earning revenue,—765,428 miles, Proportion of operating expenses and taxes for Michigan: Main line,  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway,  82,459 39	Total	operatir	ng e	<b>x</b> pen	ses and	tax	es, -	-	100.0	0	<b>\$</b> 668,130	<b>69</b>
for trains earning revenue,—765,428 miles, 87.2  Proportion of operating expenses and taxes for Michigan:  Main line, 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39	Operating	expense	s an	d tax	es per tr	ain	mile rui	<b>1</b> ,	•			
Proportion of operating expenses and taxes for Michigan:  Main line, 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39	for trai	ns earni	ing	reve	nuē,—76	5,4	28 mile	8,	8	7.2		
Main line, 573,863 36  Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39	<b>Proportion</b>	of oper	ratii	ng ex	penses s	and	taxes fo	or				
Leased or Proprietary Roads.  Toledo, Saginaw & Mackinaw Railway, 82,459 39	Michiga Main line.	n:	_				_	57	3.863 3	6		
Toledo, Saginaw & Mackinaw Railway, 82,459 39	,			L	eased or I	Proi	rietaru 1		•			
Total proportion of expenses for Michigan, . \$656.322 75	Toledo, Sa	ginaw &	z Ma			_	_			9		
	Total	proporti	ion (	of ex	penses f	or	Michiga	n, _	<del>-</del>	_	<b>\$</b> 656,322	75

\$1,205 35 45.23

Percentage of expenses to earnings,—65.87%. Net earnings per mile of road, Net earnings per train mile,

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Toledo, Ohio, to Cadillac, Michigan, August, 1888.

Toledo, Saginaw & Mackinaw railway:

From East Saginaw, Michigan, to Durand, Michigan, October, 1888.

#### MAIN LINE.

In Michigan, from Alexis (State line) to Cadillac, In Ohio, from Toledo to Alexis,	Miles. 100ths. 229.00 5.00	Miles, 100ths.
Total length completed,		234.00
BRANCHES.		
South Lyon, from Leland to South Lyon, Macon, from Macon to Quarry, St. Louis, from S. V. & St. L. crossing to St. Louis, Ithaca, from main line to Ithaca, Alma, from main line to river,	8.00 1.62 1.38 1.75 1.25	
Total length of branches owned by this company,		14.00
Total length of branches owned by company in Michigan, Total length of road belonging to this company,	14.00	248.00
Total length of road belonging to this company in Michigan,  Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,	243.00 33.00	
Aggregate length of tracks in Michigan belonging to this company computed as single track,	276.00	
Gauge of track, 4 feet 8½ inches.		
Proprietary or Leased Roads Operated by this	Company.	
Name, description and length of each:		
	Total Miles.	In Michigan.
Toledo, Saginaw & Mackinaw railway:		
East Saginaw to Durand, Michigan,	39.20	39.20
Total miles operated by the company,	323.20	315.20

#### Number of Bridges and Trestles in Michigan.

Wooden brid Combination Wooden tress	bri	dges, r	umbe	r of,	2;	aggr	egate 1	length	n, feet, n, feet, n, feet,	_	96 220 10,665
Total,	_	_	_	_	196;	-	_	_	-	_	10,981

#### Draw Bridges in Michigan.

How many on your line? None.

What railroads cross your road at grade in this State and at what locality?  Lake Shore & Michigan Southern Railroad at Dundee. Lake Shore & Michigan Southern Railroad at Dundee. Lake Shore & Michigan Southern Railroad at Pittsfield.  Wabash Railroad at Milan.  Detroit, Lansing & Northern Railroad at Howell Junction.  Detroit, Grand Haven & Milwaukee Railroad at Durand.  Chicago & Grand Trunk Railroad at Durand.  Detroit, Grand Haven & Milwaukee Railroad at Corunna.  Michigan Central Railroad at Owosso.  Saginaw Valley & St. Louis Railroad at St. Louis.  Flint & Pere Marquette Railroad at Clare.  Grand Rapids & Indiana Railroad at Cadillac.  What railroads cross your road either over or under your grade in this State, and where?  Under,—  Michigan Central Railroad at Ann Arbor.  At what crossings are interlocking and derailing switches in operation?  Crossing of the Detroit, Lansing & Northern Railroad at Howell Junction.  Crossing of the Flint & Pere Marquette Railroad at Clare.  Crossing of the Grand Rapids & Indiana Railroad at Cadillac.  What pattern or patterns have you adopted?  Union Switch & Signal, and Allentown.  Number of crossings of highways at grade in this State  at which there are gates or flagmen,  Number of crossings of highways at grade in this State  at which there are gates or flagmen,  Number of highway bridges 18 feet above track,  1 Number of highway bridges less than 18 feet above track,  Are your frogs and guard rails blocked as required by act  174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line,  77  Same in Michigan,  74	
Lake Shore & Michigan Southern Railroad at Monroe Junction.  Lake Shore & Michigan Southern Railroad at Dundee. Lake Shore & Michigan Southern Railroad at Pittsfield.  Wabash Railroad at Milan.  Detroit, Lansing & Northern Railroad at Howell Junction.  Detroit, Grand Haven & Milwaukee Railroad at Durand.  Chicago & Grand Trunk Railroad at Durand.  Chicago & Grand Haven & Milwaukee Railroad at Corunna.  Michigan Central Railroad at Owosso.  Saginaw Valley & St. Louis Railroad at St. Louis.  Flint & Pere Marquette Railroad at Clare.  Grand Rapids & Indiana Railroad at Cadillac.  What railroads cross your road either over or under your grade in this State, and where?  Under,—  Michigan Central Railroad at Ann Arbor.  At what crossings are interlocking and derailing switches in operation?  Crossing of the Detroit, Lansing & Northern Railroad at Howell Junction.  Crossing of the Flint & Pere Marquette Railroad at Clare.  Crossing of the Grand Rapids & Indiana Railroad at Cadillac.  What pattern or patterns have you adopted?  Union Switch & Signal, and Allentown.  Number of crossings of highways at grade in this State  at which there are gates or flagmen,  Number of crossings of highways at grade in this State  at which there are gates or flagmen,  Number of highway bridges 18 feet above track,  1 Number of highway bridges less than 18 feet above track,  Have safety guards been erected at over-head obstructions,  Are your frogs and guard rails blocked as required by act  174, session laws 1883? Yes.  Number of stations on whole line,  77	Crossings—Railroad and Highway.
Lake Shore & Michigan Southern Railroad at Dundee. Lake Shore & Michigan Southern Railroad at Pittsfield.  Wabash Railroad at Milan.  Detroit, Lansing & Northern Railroad at Howell Junction.  Detroit, Grand Haven & Milwaukee Railroad at Durand.  Chicago & Grand Trunk Railroad at Durand.  Detroit, Grand Haven & Milwaukee Railroad at Corunna.  Michigan Central Railroad at Owosso.  Saginaw Valley & St. Louis Railroad at St. Louis.  Flint & Pere Marquette Railroad at Clare.  Grand Rapids & Indiana Railroad at Cadillac.  What railroads cross your road either over or under your grade in this State, and where?  Under,—  Michigan Central Railroad at Ann Arbor.  At what crossings are interlocking and derailing switches in operation?  Crossing of the Detroit, Lansing & Northern Railroad at Howell Junction.  Crossing of the Grand Rapids & Indiana Railroad at Clare.  Crossing of the Grand Rapids & Indiana Railroad at Cadillac.  What pattern or patterns have you adopted?  Union Switch & Signal, and Allentown.  Number of crossings of highways at grade in this State  at which there are gates or flagmen,  5 Number of crossings of highways at grade in this State  at which there are gates or flagmen,  5 Number of highway bridges 18 feet above track,  1 Number of highway bridges 18 feet above track,  1 Number of highway bridges less than 18 feet above track,  1 Are your frogs and guard rails blocked as required by act  174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line,	What railroads cross your road at grade in this State and at what locality?
Flint & Pere Marquette Railroad at Clare. Grand Rapids & Indiana Railroad at Cadillac. What railroads cross your road either over or under your grade in this State, and where? Under,— Michigan Central Railroad at Ann Arbor. At what crossings are interlocking and derailing switches in operation? Crossing of the Detroit, Lansing & Northern Railroad at Howell Junction. Crossing of the Flint & Pere Marquette Railroad at Clare. Crossing of the Grand Rapids & Indiana Railroad at Cadillac. What pattern or patterns have you adopted? Union Switch & Signal, and Allentown. Number of crossings of highways at grade in this State, at which there are gates or flagmen, 5 Number of crossings of highways over or under railroad: Over,—3. Under,—1  Number of highway bridges 18 feet above track, 1 Number of highway bridges less than 18 feet above track, 2 Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes. How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line, 77	Lake Shore & Michigan Southern Railroad at Dundee. Lake Shore & Michigan Southern Railroad at Pittsfield. Wabash Railroad at Milan. Detroit, Lansing & Northern Railroad at Howell Junction. Detroit, Grand Haven & Milwaukee Railroad at Durand. Chicago & Grand Trunk Railroad at Durand. Detroit, Grand Haven & Milwaukee Railroad at Corunna. Michigan Central Railroad at Owosso.
Grand Rapids & Indiana Railroad at Cadillac.  What railroads cross your road either over or under your grade in this State, and where?  Under,—  Michigan Central Railroad at Ann Arbor.  At what crossings are interlocking and derailing switches in operation?  Crossing of the Detroit, Lansing & Northern Railroad at Howell Junction.  Crossing of the Flint & Pere Marquette Railroad at Clare.  Crossing of the Grand Rapids & Indiana Railroad at Cadillac.  What pattern or patterns have you adopted?  Union Switch & Signal, and Allentown.  Number of crossings of highways at grade in this State  at which there are gates or flagmen,  Number of crossings of highways over or under railroad:  Over,—3. Under,—1  Number of highway bridges 18 feet above track,  1 Number of highway bridges less than 18 feet above track,  Have safety guards been erected at over-head obstructions,  Are your frogs and guard rails blocked as required by act  174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line,  77	
What railroads cross your road either over or under your grade in this State, and where? Under,— Michigan Central Railroad at Ann Arbor. At what crossings are interlocking and derailing switches in operation? Crossing of the Detroit, Lansing & Northern Railroad at Howell Junction. Crossing of the Flint & Pere Marquette Railroad at Clare. Crossing of the Grand Rapids & Indiana Railroad at Cadillac. What pattern or patterns have you adopted? Union Switch & Signal, and Allentown. Number of crossings of highways at grade in this State, at which there are gates or flagmen, Number of crossings of highways over or under railroad: Over,—3. Under,—1  Number of highway bridges 18 feet above track, 1 Number of highway bridges less than 18 feet above track, 2 Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes. How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line,	
Michigan Central Railroad at Ann Arbor.  At what crossings are interlocking and derailing switches in operation?  Crossing of the Detroit, Lansing & Northern Railroad at Howell Junction.  Crossing of the Flint & Pere Marquette Railroad at Clare.  Crossing of the Grand Rapids & Indiana Railroad at Cadillac.  What pattern or patterns have you adopted?  Union Switch & Signal, and Allentown.  Number of crossings of highways at grade in this State,  at which there are gates or flagmen,  Sumber of crossings of highways over or under railroad:  Over,—3. Under,—1  Number of highway bridges 18 feet above track,  Number of highway bridges less than 18 feet above track,  Have safety guards been erected at over-head obstructions,  Are your frogs and guard rails blocked as required by act  174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.	What railroads cross your road either over or under your grade in this State, and where?
At what crossings are interlocking and derailing switches in operation?  Crossing of the Detroit, Lansing & Northern Railroad at Howell Junction.  Crossing of the Flint & Pere Marquette Railroad at Clare.  Crossing of the Grand Rapids & Indiana Railroad at Cadillac.  What pattern or patterns have you adopted?  Union Switch & Signal, and Allentown.  Number of crossings of highways at grade in this State,  at which there are gates or flagmen,  Number of crossings of highways over or under railroad:  Over,—3. Under,—1  Number of highway bridges 18 feet above track,  Number of highway bridges less than 18 feet above track,  Have safety guards been erected at over-head obstructions,  Are your frogs and guard rails blocked as required by act  174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line,	
Crossing of the Detroit, Lansing & Northern Railroad at Howell Junction.  Crossing of the Flint & Pere Marquette Railroad at Clare. Crossing of the Grand Rapids & Indiana Railroad at Cadillac.  What pattern or patterns have you adopted? Union Switch & Signal, and Allentown.  Number of crossings of highways at grade in this State, at which there are gates or flagmen,  Number of crossings of highways over or under railroad: Over,—3. Under,—1  Number of highway bridges 18 feet above track,  Number of highway bridges less than 18 feet above track,  Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line,	Michigan Central Railroad at Ann Arbor.
tion.  Crossing of the Flint & Pere Marquette Railroad at Clare. Crossing of the Grand Rapids & Indiana Railroad at Cadillac.  What pattern or patterns have you adopted? Union Switch & Signal, and Allentown.  Number of crossings of highways at grade in this State, 232  Number of crossings of highways at grade in this State at which there are gates or flagmen, 5  Number of crossings of highways over or under railroad: Over,—3. Under,—1 4  Number of highway bridges 18 feet above track, 1  Number of highway bridges less than 18 feet above track, 2  Have safety guards been erected at over-head obstructions, Yes. Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.	At what crossings are interlocking and derailing switches in operation?
Crossing of the Flint & Pere Marquette Railroad at Clare. Crossing of the Grand Rapids & Indiana Railroad at Cadillac. What pattern or patterns have you adopted? Union Switch & Signal, and Allentown. Number of crossings of highways at grade in this State, 232 Number of crossings of highways at grade in this State at which there are gates or flagmen, 5 Number of crossings of highways over or under railroad: Over,—3. Under,—1 4 Number of highway bridges 18 feet above track, 1 Number of highway bridges less than 18 feet above track, 2 Have safety guards been erected at over-head obstructions, Yes. Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes. How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line, 77	
Number of crossings of highways at grade in this State,  Number of crossings of highways at grade in this State at which there are gates or flagmen,  Number of crossings of highways over or under railroad: Over,—3. Under,—1  Number of highway bridges 18 feet above track,  Number of highway bridges less than 18 feet above track,  Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line,  77	Crossing of the Flint & Pere Marquette Railroad at Clare. Crossing of the Grand Rapids & Indiana Railroad at Cadillac. What pattern or patterns have you adopted?
Number of crossings of highways at grade in this State at which there are gates or flagmen,  Number of crossings of highways over or under railroad: Over,—3. Under,—1  Number of highway bridges 18 feet above track,  Number of highway bridges less than 18 feet above track,  Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line,  77	Vernham of chargings of high-rays of smalls in this State 920
at which there are gates or flagmen,	Number of crossings of highways at grade in this State, _ 252
Number of crossings of highways over or under railroad: Over,—3. Under,—1  Number of highway bridges 18 feet above track, 1 Number of highway bridges less than 18 feet above track, Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes. How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line, 77	at which there are coted on flarman
Over,—3. Under,—1  Number of highway bridges 18 feet above track,  Number of highway bridges less than 18 feet above track,  Have safety guards been erected at over-head obstructions,  Are your frogs and guard rails blocked as required by act  174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line,  77	Number of energines of highways every or under reilroad.
Number of highway bridges 18 feet above track, Number of highway bridges less than 18 feet above track, Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes. How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line, 77	Owen 2 Under 1
Number of highway bridges less than 18 feet above track, Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes. How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  Number of stations on whole line,	Number of highway bridges 18 feet shove track
Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  77	Number of highway bridges less than 18 feet above track
Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.  How are they treated? Blocked with wood and firmly spiked to tie.  Stations.  77	
Stations.  Number of stations on whole line, 77	Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.
Number of stations on whole line,	How are they treated? Blocked with wood and firmly spiked to tie.
	Stations.

426

#### Employés.

Number of per by company, Same in Michi	incl	iding	arly e offici	mplo; als,	yed or - -	all :	roads - -	opera - -	ited - -	894 7 <b>4</b> 6
Classify your e	mplo	уе́в а	s per	follov	ving l	ist:		•		Number.
Baggagemen	,	_	_	-	-	_	-		-	7
Brakemen,	-	_	-	-	-	_	-	-	-	92
Conductors,	-	-	-	-	-	-	-	-	-	39
Engineers,	-	-	-	-•	-	-	-	-	-	47
Firemen,	-	-	-	-	-	-	-	-	-	46
Laborers,	-	-	-	_	-	-	-	_	-	260
Shopmen,	-	-	-	-	-	-	-	-	-	131
Yardmen,	-	-	_	-	-	-	-	-	-	40
Others,	-	-	-	-	-	-	-	-	-	232
			REPA	IRS A	ND RE	NEWA	L8.			

#### Fencing in Michigan.

How many miles of fencing have you?	
Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	

#### Clare, Osceola and Missaukee counties.

Total miles required,	-	-	_	_	-	_	-	112

#### Road Bed and Track.

Number of track sections in Michigan,	_	41
Average length of sections,—miles,	_	7
Average number of men in each section gang,	-	4
Number of new ties put in whole line during the year,	-	41,178
Number of new ties put in track in Michigan,	-	38,540
Average number of new ties per mile of road,	-	127

#### Bridges and Culverts.

Amount of trestle work replaced with earth during the year,						
—linear feet,	_	-	-	-		384
Timber culverts replaced during the ye	ear,	_	-	-	_	7
With timber,—number,	_	-	-	-	7	
New bridges built during the year,	-	-	-	-		4

Location.	Kind.	Material,	Month Built,	Feet in Length.
Shepherd, Michigan Campbell, Michigan Campbell, Michigan Alma, Michigan	Trestle Trestle Trestle Trestle	Wood Wood Wood	June July October	32 42 42 200
Total				316

#### ROLLING STOCK.

		IWIIII	10 5	TOOM	•		
N 1 4 1				00.4		Number.	Present Estimated Value.
Number of locol weight, exclusive	ve of tende	r.	_	_	_	34	<b>\$238,000 00</b>
Number of locom exclusive of ten	onves of 20 der, _	-	-	- weigi	ut, -	2	8,000 00
Total,	<b>-</b> .	<u>.</u>	-	-	-	36	<b>\$246,000 00</b>
Number of passe	enger cars-	-8 whe	el, in	cludi	ng	10	45 500 00
official cars,		-	-	-	-	13	<b>45,500 00</b>
Number of expres	ss and bags	age car	s.	_	_	9	27,000 00
Number of box fr	night core	,	-,			681	187,000 00
			-	-	-	375	
Number of platfo	rm cars,	-	-	-	-		84,000 00
Number of condu	ctors' way	cars,	-	-	-	13	6,500 00
Other cars as fo	ollows:						
Tool cars, 4; derr		z nlowe	3.	harce	no l		
cars, 18,		-	-	-	-	26	21,200 00
Total,		-	-	-	-	1,117	<b>\$</b> 617,200 00
Number of freigh What patterns of Are your freigh by Act No. 147, S What pattern several patterns w How are your p	power braint cars being dession Lavor pattern vithout sati	kes have g equip vs of 18 is have isfactor	e you ped v 85? you y res	in us vith as No. ado ults.	se? W utoma pted	estinghoutic coupler for use?	s as required
	MII	EAGE,	TRA	FFIC,	ETC.		
	•	Train	n Mile	eage.			
Miles run by pass Miles run by frei Miles run by mix	ght trains	during	the y	ear,	-	 	349,251 412,951 3,226
Total mileag	e of trains	earning	reve	nue,	-		765,428
		Passen	ger I	raffic.			
				Non and On	bers antities.	Miles.	Rate. Dols. Cents.
Number of throu Number of local			-	·	211 4,403	•	Polis, Centies,
Total number of	passengers	carried	l <b>,</b> _	24	4,614		
Total passenger mile,	nileage, or	passeng	ers c	arried -	l one	8,159,25	5
Average distance	traveled b	y each p	passe	nger,	-	33.3	5

Average amount received Average rate of fare per r Average rate of fare per r Average rate of fare per r	nile for th mile for lo	rough p	assengers, engers,		Rate. Pollars. Cents. \$0 92.61 02.47 02.77 02.77
	Freigl	t Traffic	•		
Number of tons of through Number of tons of local in	n freight c ireight car	arried,	Numbers Quantities. 46,841 816,935	Miles. D	Rate. ollars. Cents
Total tons of freight	carried,	-	863,776		
Total mileage of through Total mileage of local fre	freight, ight,		<u>-</u> -	7,700,11 57,198,43	
Total freight mileage, or	tona carrie	d one m	ila	6,498,55	_ n
Average ton haul for thro	moh freiol	ht	110, -	164.	
Average ton haul for loca		u, _	-	70.0	
Average ton haul for all i	reight.		-	75.	
g			<u>-</u>		_
Average amount received Average rate per ton per Average rate per ton per Average rate per ton per	mile, recei mile, recei	ved for t	through fr local freig	eight, ht, _	\$0 75.90 01.08 01.00 01.01
Freight	Forwarded	l at Mich	igan Station	18.	Tons.
Grain, .					21,219
Flour,		-		- •	5,936
Provisions (beef, pork, la	rd. etc.).		<u>.</u>		805
Animals,	,,	_			5,289
Other agricultural produc	cts.	_		_	12,649
Lumber and forest produc	cts, _				191,676
Coal,					19,433
Plaster, lime and cement,	-	_	<b></b>		2,529
Salt,			-		57,686
Petroleum,		-			1,107
Railroad iron, iron and st	eel rails,	-			3,651
Pig and bloom iron,		-		•	152
Other iron and castings,		-			3,846
Ores,			-		161
Stone, brick and sand,			. <b></b>	·	7,913
Manufactures,—articles si Merchandise and other ar	tialog so	m bome	tog opozo or broanci	лоц, _	8,854 76,175
Merchandise and other ar	ricies nor	эпишега	wa above,	-	10,119
Total forwarded,					419,081
Tonnage of	Articles T	ransporte	d.—Entire	Road.	
		-		Tons.	Per Cent.
Grain,	 			32,942 27,656	3.80 3.20

						Tons.	Per Cent.
Provisions (beef, pork, lard, et	c.).	_	_	_	_	816	.10
Animals,	- ,,	-	_	_	_	5,394	.62
Other agricultural products,	_	_	_	_	_	28,029	3.25
Lumber and forest products,	_	-	_	_	-	205,477	23.79
Coal,	_	-	_	_	_	325,484	37.69
Plaster, lime and cement,	-	-	-	_	-	<b>4</b> ,558	.53
Salt,	-	-	-	-	-	<b>57,802</b>	6.69
Petroleum,	.=	-	-	-	-	5,384	.62
Railroad iron, iron and steel ra	ils,	-	-	-	-	8,055	.93
Pig and bloom iron,	-	-	-	-	-	4,022	.47
Other iron and castings,	-	-	-	-	-	17,805	2.06
Ores,	-	-	-	-	-	1,200	.14
Stone, brick and sand,		-			-	12,922	1.49
Manufactures,—articles shippe	ed fr	om po	oint o	f prod	uc-	<b>1</b> 4 000	
tion,		-			-	14,899	1.73
Merchandise and other article	s not	enun	aerate	ed abo	ve,	111,331	12.89
Total tons carried,	-	-	-	_	_	863,776	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company. General freight taken at depots only. Fixed rate per month.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Toledo, Ann Arbor & North Michigan Railway Company, Toledo, Saginaw & Mackinaw Railway Company,	. <u>-</u>	346 40
Total.		386

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

January 4, E. S. Dean, citizen, North Star, Mich. Walking on track in advance of passenger train; carelessness of deceased.

January 21, Wm. C. Thomas, citizen, Taymouth, Mich. Lying on track

intoxicated; carelessness of deceased.

April 11, G. H. Bortle, citizen, Ann Arbor, Mich. Stealing ride on train; carelessness of deceased.

June 5, Ed. Tray, citizen, Cadillac, Mich. Lying on track intoxicated; carelessness of deceased.

June 28, Mike O'Brien, citizen, Cadillac, Mich. Lying on track intoxicated; carelessness of deceased.

December 18, John Lomis, citizen, Cadillac, Mich Walking on track intoxicated; carelessness of deceased.

Company exonerated in all above cases.

#### INJURED.

February 14, F. Reinhart, brakeman, Ann Arbor, Mich. Arm mashed; coupling cars.

August 19, F. Dahm, citizen, Azalia, Mich. Struck by passenger train, leg broken; The man is deaf and dumb.

October 18, Ed. Arnold, brakeman, Milan, Mich. Arm mashed; coup-

November 30, C. R. Perrine, brakeman, Corunna, Mich. Leg broken; switching.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Ca of Accident.		Killed.		Injured.					
	1			i	Employés.				
ollisions outling cars. erailments. alling from trains rogs. etting on and off trains. is phay or or or or or or or or or or or or or									
erailments									
alling from trains			• • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • •			
etting on and off trains ighway crossings									
iscellaneous					1				
verhead obstructions			1			••••••			
respassers on tracks			. J						
Total		  ;	6		8				
Tumber of persons Tumber of persons	injured durii	the year	r, _						
Tumber of persons Tumber of persons Tumber of casualties	killed during injured during es purely acci	the year	r, _ &r, _		· . 	-			
Tumber of persons Tumber of persons Tumber of casualtic Tumber resulting fr	killed during injured during es purely acci	the year of the year dental, ution, car	r, _ ar, _ relessnes		· . 				
Tumber of persons Tumber of persons Tumber of casualtic Tumber resulting fr Persons killed or in	killed during injured during s purely acci om lack of ca jured while i	the year ng the year dental, ution, can ntoxicate	r, _ ar, _ relessnes		· . 				
Tumber of persons Tumber of persons Tumber of casualtic Tumber resulting fr	killed during injured during s purely acci om lack of ca jured while i	the year ng the year dental, ution, can ntoxicate	r, _ ar, _ relessnes		· . 				

	Killed,	Injured.	Total.
Baggagemen.			
Brakemen		8	3
Engineers Firemen	 	l	
Laborers. Shopmen.			
Yardmen. Not classified above.			
Not classified accress		l	I
Total-		. 3	8

STATE OF OHIO, COUNTY OF LUCAS, Ss.

Henry W. Ashley, General Manager, and George B. Parke, Auditor, of the Toledo, Ann Arbor & North Michigan Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. B.]

Signed,

HENRY W. ASHLEY.

G. B. PARKE.

Subscribed and sworn to before me this 21st day of April, A. D. 1890.

ISAAC N. HUNTSBERGER,

Commissioner for Michigan in Ohio.

#### ANNUAL REPORT

OF THE

### LAKE SHORE & MICHIGAN SOUTHERN RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed April 29, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and General Manager, JOHN NEWELL, Cleveland. Ohio. Vice President and Secretary, E. D. WORCESTER, New York, N. Y. Auditor, CYRUS P. LELAND, Cleveland, Ohio.

Treasurer, E. D. WORCESTER, New York, N. Y. General Superintendent, PHINEAS P. WRIGHT, Cleveland, Ohio. Assistant General Superintendent, W. H. CANNIFF, Cleveland, Ohio. Division Superintendents, C. B. COUCH, East Division, Cleveland, Ohio.

THOS. FLESHER, JR., Toledo Division, Cleveland, Ohio.
T. J. CHARLESWORTH, Mich. Division, Toledo, O.
A. G. AMSDEN, Western Division, Chicago, Ill.
T. W. NILES, Franklin Division, Youngstown, O.
S. S. HAND, Detroit Division, Detroit, Mich.
T. F.WHITTELSEY, Lansing Division, Hillsdale, Mich.
R. C. HARRIS, Kalamazoo Division, Kalamazoo, Mich.

Chief Engineer, G. H. KIMBALL, Cleveland, Ohio. Superintendent of Telegraph, WM. KLINE, Toledo, Ohio. Local Treasurer, N. BARTLETT, Cleveland, Ohio. General Passenger Agent, A. J. SMITH, Cleveland, Ohio. General Freight Agent, J. T. R. McKAY, Cleveland, Ohio. Attorney, GEORGE O. GREEN, Cleveland, Ohio.

#### DIRECTORS.

C. VANDERBILT, New York, N. Y.
DARIUS O. MILLS, New York, N. Y.
WILLIAM L. SCOTT, Erie, Pa.
RASSELAS BROWN, Warren, Pa.
Terms expire, May, 1890.

WM. K. VANDERBILT, New York, N. Y.
SAML. F. BARGER, New York, N. Y.
CHARLES M. REED, Erie, Pa.
JEPTHA H. WADE, Cleveland, Ohio.
Terms expire, May, 1891.

F. W. VANDERBILT, New York, N. Y. John E. Burrill, New York, N. Y. E. D. Worcester, New York, N. Y. John Newell, Cleveland, Ohio. John DeKoven, Chicago, Ill.

Terms expire, May, 1892.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of	association filed,—18	<b>46.</b>						
Number of stockholders at d	ate of last election,		-	-	-	-	-	3,264
Number of stockholders in M	lichigan at same date,	-	-	-	-	-	-	29
Amount of full paid stock he	eld in Michigan at san	e dat	e,	-	-	• -	-	\$21,100
Date of annual meeting of st	ockholders,—First We	dnesc	lay i	in M	lay.			
Fiscal year of company ends,	—December 31.							
General offices of the compar	ny are located at,—Cle	velan	d, O	hio.				

#### REMARKS.

Address all communications cencerning this report to-

Cyrus P. Leland, Auditor, Cleveland, Ohio.

#### GENERAL EXHIBIT.

			D	EBIT.	Cam	DIT.
Total income,	-	-		-	<b>\$</b> 19,487,196	74
Total expenses, including taxes,	-	-	<b>\$</b> 12,8 <b>47,4</b> 51	57		
Net income,	-	-		-	<b>\$</b> 6,639,7 <b>4</b> 5	17
Interest on funded debt, Interest on guaranteed stock, Interest on six branch roads,	-	-	\$3,245,015 53,350 507,645	00	3,806,010	40
Balance applicable to dividends,	-	-			\$2,833,734	77
Dividends declared, 5%,	-	-	<b>\$</b> 2,473,325	00	<u> </u>	
Balance for the year,	-	-			<b>\$</b> 360, <b>4</b> 09	77
Balance (profit and loss) last year,	-	-	•		10,649,801	67
Items not included in above, as fol	lows:					
Interest and dividends on assets,	-	-			382,541	<b>4</b> 9
Balance forward to next year,	-	_	11,392,752	93		
			<b>\$</b> 11,392,752	93	<b>\$</b> 11,392,752	93

#### ANALYSIS OF CAPITAL STOCK.

**\$100 00** Par value of shares,

No. of shares issued, 500,000

Amount paid in on common, \$49,466,500 00 Amount paid in on guaranteed, 533,500 00

Total amount paid in as per books of the company, **\$50,000,000 00** 

Paid in per mile of road owned by company,
—864.87 miles,

\$57,812 16

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	When Due.		Interest,	Amount.
		Rate.	Payable.	
L. S. & M. S., consolidated 1st mortg., July 1, 1870.  Lake Shore R'y, dividend bonds, April 1, 1869.  O., P. & A., 3d mortgage, October 1, 1867.  Buffalo & Erie, mortgage, April 1, 1868.	July 1, 1900 April 1, 1899 Oct. 1, 1892 April 1, 1898	74 74 74 74	Jan., Apr., July and Oct April and Oct April and Oct April and Oct	\$15,190,000 1,856,000 920,000 2,784,000
Total amount outstanding of the first general mort- gage of \$25,000,000				\$20,250,000
L. S. & M. S., consol. 2d general mortg., Dec. 1, 1873.	Dec. 1, 1908	7≴	June and Dec	24,692,000
Total funded debt L. S. & M. S. R'y Co. proper.				\$44,942,000
Debt of Proprietary Roads, owned wholly by Lake Shore & Michigan Southern Railway Company:				
D., M. & T., 1st mortg. guaranteed by L. S. & M. S Kalamazoo & White Pigeon, 1st mortgage	Aug. 1, 1908 Jan. 1, 1940	7≰ 5≰	Feb. and Aug Jan. and July	924,000 400,000
Total funded debt of proprietary roads			*******	\$1,324,000
Total funded debt				\$46,266,000

#### UNFUNDED DEBT.

No unfunded debt; cash on hand exceeding current liabilities.

#### BECAPITULATION.

Total funded debt,	- '		-	-	-	-	<b>\$46,266,000</b>	00
Total debt liabilities	,		-	-	-	-	<b>\$46,266,000</b>	00
Amount of debt liabilities	per m	le of 1	road,-	1,02	<b>6.96</b> :	miles,	45,051	41
Total amount of sto	ck and	debt,		-	-	-	<b>\$</b> 96,266,000	00
Stock and debt per mile	of road	, } <sub>1.</sub>	8 <b>64</b> .8'	7 mil 6 mil	es, es.	-	57,812 45.051	16 41

#### GENERAL BALANCE SHEET.—Dr.

	00,000 00 00,000 00	
Other investments, specifying same:		ф0 <del>1</del> ,000,000 00
White Pigeon & Kalamazoo railroad, 61 Northern Central Michigan railroad, 1,38 Jamestown & Franklin railroad, 2,21	81,600 00 10,000 00 57,000 00 14,005 31 13,240 05	
Cash items:		20,275,845 36
Cash, \$3,78	34,338 59 32,201 86	
Other assets:		1,100,010 10
Materials and supplies, \$57 Debit balances from companies and	7,435 93	}
individuals, 27 Pacific Hotel Company, Chicago, 30	76,605 63 03,803 37 61,007 59	, )
		1,508,852 52
Total,	-	<b>\$</b> 109,921,238 33
GENERAL BALANCE SHEET	Cr.	
	00,000 00 66,000 00	
	10,670 00 51,815 <b>4</b> 0	}
Profit and loss or income accounts,		2,662,485 40 11,392,752 93
Total,		<b>\$</b> 109,921,238 <b>33</b>
Total,		<b>\$</b> 109,921,238 33
·	ENT.	, ,
COST OF ROAD AND EQUIPME  Total Cost for Construction and Equipment of Road, and  Total expended for construction and equipment,	ENT. Branches	Built by Company.
COST OF ROAD AND EQUIPME	ENT. Branches	Built by Company.

# ANALYSIS OF EARNINGS.

## PASSENGER EARNINGS.

Roads.	Local Fares.	Through Fares.	Total Passenger Fares.	Express and Baggage.	Mails.	Other Bources.	Total.	Proportion Fer for Train Mile.	Per Train Mile.	Per Mile of Road.
Main line and branches	\$3,455,259 16	\$1,222,900 65	\$4,678,258 8tl	\$459,687 25	\$1,061,598 89		\$6,219,589 95	\$1,212,810 29		\$6,475 28
Leased or Proprietary Roads:										
Detroit, Monroe & Toledo Detroit, Hillsdale & S. W	145,098 06		145,098 06	10,586 22	10,942 89		166,627 17 21,458 55	146,079 38 21,458 55		2,671 72 829 12
Fort Wayne & Jackson. Northern Central Michigan.	42,949 18		25,24,65 42,949,18	1,621 41	3,230 72 8,298 12		47,488 66	25.55 26.55		285 285 528 538 538
Kalamazoo & White Pigeon. Kalamazoo, Allegan & G. R.	61,908 74		61,306 74	2,50 1942 05 1942 05	2.000 2.000		25,087 25,091 24,091 24,091	46,682 45 73,091 43 18,950 21		1,251 14
Months & Control Constitution	on oppler		Co Cocher	an applia	Co contin		TOTAL TOTAL	TO 00010T		
Total passenger earnings	\$3,859,480 76	<b>\$3,859,430 76 \$1,222,999 65</b>	\$5,082,490 41	\$185,983 39	\$1,122,340 68		\$6,690,754 48	18,690,754 48 \$1,609,154 55	\$1 69.49	\$4,746 78

## FREIGHT EARNINGS.

Roads.	Local Traffic.	Through Traffic.	Total Traffic.	Other Sources.	Total.	Proportion Per Mile.	Per Train Mile.	Per Mile of Road.
Main line and branches	\$8,401,769 20	\$8,252,596 80	\$3,252,596 80 \$11,654,806 00 \$187,712 88 \$11,842,018 88 \$2,471,191 10	\$187,712.88	\$11,842,018 38	\$2,471,191 10		\$18,193 76
Detroit, Monroe & Toledo Northern Central Michigan. Kalamazoo & White Figeon Kalamazoo Allegan & Grand Rapida Detroit, Hillscale & Southwestern Fort Wayne & Jackson. Detroit & Chicago	363,039 15 46,418 96 52,300 41 70,730 02 111,746 43 20,236 69		363,996 15 46,413 96 52,300 41 70,780 02 116,964 96 111,746 43 20,296 69	14,114 67 1,870 89 1,058 12 2,905 55 22 00 1,880 69	378,050 82 48,284 85 53,358 53 78,885 57 16,886 86 113,127 12 20,287 60	331,431 02 48,284 85 58,356 58 73,685 57 16,986 96 53,074 19 18,886 89		6,062 39 791 55 1,442 12 1,270 44 291 34 1,154 36 298 49
Total freight earnings	\$9,084,207 72	\$3,252,536 80	99,064,207 72 \$5,252,636 80 \$12,536,744 52 \$209,065 21 \$12,545,609 78 \$5,006,910 42	\$200,065 21	\$12,545,809 78	\$3,066,910 42	\$1 71.90	\$6,900 58

n	^	4
- (	•,	
• 1	_	1

1000.) HARE BROKE & MICHIGAN BOOTHMAN IMIDWAT CO. 021
Total transportation earnings, \$19,236,564 21
Transportation earnings per mile of road, \$13,647 31 Transportation earnings per train mile, 1 71
Miscellaneous receipts from operating account, other than for transportation, as follows:  From rentals of tracks or terminals, \$222,151 69  From other sources, 28,480 84
Total, \$250,632 53 \$250,632 53
Distribution of miscellaneous earnings between main line and leased or proprietary roads:
Company.  Detroit, Monroe & Toledo railroad,  Total Miscellaneous. \$17,157 19  Proportion for Michigan. \$17,157 19
Total earnings from operation of road, \$19,487,196 74
Total earnings per mile of road, Total earnings per train mile, Troportion of taxable earnings for Michigan, Total taxable earnings per mile of road in Michigan, Income other than from earnings:  \$13,825 12 1 73.3 1,009,220 77
Interest and dividends on assets, 382,541 49
Total income from all sources, \$19,869,738 23
Proportion of income for Michigan, 4,693,222 16
ANALYSIS OF EXPENSES.
CLASS 1.—Maintenance of Way and Buildings.
Repairs of road way and track,
Total,
CLASS 2.—Maintenance of Motive Power and Cars.
Repairs of locomotives,
Total, \$2,473,981 35

#### CLASS 3.—Conducting Transportation.

Fuel for locomotives,	_	_	_	_	_	_	<b>\$748,380 90</b>
Water supply,	_	_	_	_	_	_	57,248 87
Oil and wests		_	_	_	_	_	72,193 61
Locomotive service,	_	_			_	_	1,180,782 47
Locomotive service, Passenger train service,		-	_	-	_		226,539 15
Passenger train supplies	3.	_	_	_	_		10,017 19
Mileage of passenger ca	rs.	-	_	_	_	_	25,465 90
Freight train service,	_	-	_	_	_	_	580,094 42
Freight train supplies,	_	_	_		_	_	3,186 01
Mileage of freight cars,		_	_	_	_	_	600,897 52
Telegraph expenses (ma	inten	ance a	and or	perati	ng),	_	. 306,665 14
Damage and loss of frei	ght a	nd ba	ggage	<del>)</del> ,	-	_	42,036 15
Damages to property an	d cat	tle.	-	<i>'</i> _	_	_	31,271 96
TD			_	_	_	_	76,416 30
Agents and station servi	ice.	_	_	_	_	_	<b>2,178,310 83</b>
Station supplies,	_	_	_	_	_	_	59,918 80
Total,	_	_		_	_	-	<b>\$</b> 6,199,425 <b>22</b>
,							- •-,,
	CLASS	s 4.—G	lenera	l $Expe$	nses.		
Salaries of the general of	fficar	a of t)	10 001	nnanı	7		<b>\$113,599 44</b>
Salaries of clerks in gen	orel o	Affinage	10 001	прац	,	-	259,019 63
T		mcob,	•	-	-	-	66,134 84
Rents payable,	-	-	-	-	-	-	103,109 46
Stationery and printing	-	-	-	-	-	-	104,276 53
Outside agencies and ad	vertic	ina	-	-	-	-	216,080 23
		mg,	-	-	-	-	41,842 56
Contingencies,	-	-	-	-	-	-	494,416 61
<b>_</b>	-	-	-	-	-	-	. 101,110 01
Total,							<b>\$1,398,479 30</b>
1000,	•	-	-	-	-	-	- 41,000,110 00
TO T	CAPIT	TTT. A TY	TON O	E DV	DENGE	Q	
16.2	CALLI	ULLAI	LOM O	y EA.	LEMBE		•
						Per cent Expens	
Maintenance of way and	build	lings.				21.6	0 \$2,775,565 70
Maintenance of motive	nower	and o	erre.	-	-	19.2	6 2,473,981 35
Conducting transportati	on	una .	· · · · · · · · · · · · · · · · · · ·	-	-	48.2	
General expenses, include	ding t	AYAR	-	-	-	10.8	
cremental emperation, moral		<b></b> ,	-	-	-		
Total operating exp	enses	and t	axes,	-	-	100.0	0 \$12,847,451 57
Operating expenses and	taxes	ner ·	mile (	of ros	.d. \$9	9.114 5	7
Operating expenses and	taxes	per to	rain n	nile r	ın.	,	•
for trains earning rev	enue	-11.2	45.89	1 mil	es.	1 1	4.2
							<del></del>
Proportion of operating	expe	enses	and t	axes i	or		
Michigan:							<b>60 400 000 10</b>
Main line,	-	-	-	-	-	-	<b>\$2,428,862 12</b>

#### Leased or Proprietary Roads.

Detroit, Monroe & Toledo railroad, Detroit, Hillsdale & Southwestern railroad, Fort Wayne & Jackson railroad, Northern Central Michigan railroad, Kalamazoo & White Pigeon railroad, Kalamazoo, Allegan & Grand Rapids railroad, Detroit & Chicago railroad,	\$303,369 21 38,445 41 72,715 76 73,005 56 75,923 15 111,447 77 41,846 92	<b>\$</b> 716,753 78
Total proportion of expenses for Michigan, Percentage of expenses to earnings,—65.93 % Net earnings per mile of road, Net earnings per train mile,	\$4,710 55 59	<b>\$</b> 3,145,615 90

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

Main line, Monroe, to Indiana State line, October, 1851.

Jackson branch, Tecumseh, to Jackson, July 1857.

Erie & Kalamazoo, Toledo Ohio, to Adrian, July 1835.

Detroit & Chicago, Detroit River Junction, to Fayette Indiana, July 1874.

Detroit H. & S. W. Ypsilanti, to Hillsdale, November 1872.

Detroit M. & T. Detroit Mich., to Toledo Ohio, July 1857.

K., A. & G. R., Kalamazoo, to Grand Rapids, March 1, 1869.

K., & W. P. Kalamazoo, to White Pigeon, May 3, 1867.

N. C. Mich., Jonesville, to Lansing, January 13, 1873.

#### MAIN LINE.

•	Miles. 100ths.	Miles. 100ths.
In Michigan, from State Line of Ohio and Michigan to State Line of Michigan and Indiana, In New York from Buffalo to State Line of New	115.95	
York and Pennsylvania,	69.50	
In Pennsylvania, from State Line of New York and Pennsylvania to State Line of Pennsylvania and		
Ohio,	44.06	
In Ohio, from State Line of Pennsylvania and Ohio to State Line of Ohio and Michigan,	195.01	
In Indiana, from State Line of Michigan and Indiana	190.01	
to State Line of Indiana and Illinois,	101.95	
In Illinois, from State Line of Indiana and Illinois to Chicago,	14.02	
Total length completed,		540.49
Length of double track on main line,		314.44
BRANCHES.		
Sandusky, from Elyria Junction to Milbury Junction, via Sandusky.	72.95	

•		
	Miles. 100ths	. Miles. 100ths.
Sandusky Pier, from Sandusky Junction to old depot	3.72	
at Sandusky, Air Line, from Air Line Junction to Elkhart,	130.83	
Jackson, from Lenawee Junction to Jackson,	41.98	
Monroe, from Lenawee Junction to Monroe,	29.37	
Ashtabula Harbor, from Ashtabula Harbor to cross-		
ing of Main Line,	2.33	
Dunkirk, Junction with D. A. V. R. R. at Dunkirk,	1.50	
Detroit, from Air Line Junction to Detroit,	62.36 26.57	
Kalamazoo, from White Pigeon to Kalamazoo, Lansing, from Jonesville to North Lansing,	36.57 61.14	
Detroit and Chicago, from Detroit River Junction	01.11	
to Fayette,	67.60	•
Ashtabula, from Ashtabula to Jamestown,	35.98	
Total length of branches owned by company,		546.33
Matallan ath of handles among his common in		
Total length of branches owned by company in Michigan,	286.67	
michigan,	200.01	
Total length of road belonging to this company,		1,086.82
Total length of road belonging to this company		•
in Michigan,	402.62	
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,	94.24	
Aggregate length of tracks in Michigan belong- ing to this company, computed as single track,		496.86
Gauge of track, 4 feet 81 inches.		
Proprietary or Leased Roads Operated by this	Company.	
	Total Mile	s. In Michigan.
Name description, and length of each:		
Kalamazoo, Allegan & Grand Rapids Railroad		
from Kalamazoo to Grand Rapids,	<b>58.42</b>	<b>58.42</b>
Detroit, Hillsdale & Southwestern Railroad from		
Ypsilanti to Bankers,	<b>65.20</b>	65.20
Ft. Wayne & Jackson Railroad from Ft. Wayne to	07 09	44.54
Jackson, Jamestown & Franklin Railroad from Jamestown to	97.83	44.04
Oil City,	50.91	
Mahoning Coal Railroad, (including three short bran-		
ches) from Andover to Youngstown,	42.06	
Mahoning Coal Railroad to Sharon Branch,	8.31	
Total,	322.73	168.16

Total miles operated by the company,

\_ 1,409.55

570.78

#### Number of Bridges and Trestles in Michigan.

•	-	•		
Wooden bridges, number of	31;	aggregate length, feet,	-	4,225
Stone bridges, number of	. 2	aggregate length, feet,	-	105
		(30 ft. and upwards),		
Iron bridges, number of		aggregate length, feet,	_	790
Combination bridges, number of	f 1	aggregate length, feet,	-	305
Wooden trestles, number of	85	aggregate length, feet,	_	12,255
		(60 ft. and upwards),		
		•		
Total,	126			17,680

#### Draw Bridges in Michigan.

How many on your line?

Where located, when built, and length of draw span.

One over Grand River near Grand Rapids.

One over Rouge River near Detroit

One over Rouge River near Detroit.

One built in 1879; 179 feet. One built in 1887; 160 feet.

Character of structure:

One wood Howe Truss; one iron Pratt Truss.

Material of which constructed:

One wood and one iron.

Height above water, and depth of water under bridge:

Height above water, one 22 feet and one 9 feet 16 inches; depth of water, one 7 feet and one 16 feet.

How swung, by engine or hand power?

Hand.

Approaches, straight or curved: One straight and one curved.

Do you require all trains to come to a full stop before crossing a draw, and how are they signalled?

Yes; target.

#### Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality? Chicago & West Michigan Railroad at Grandville. Cincinati, Jackson & Mackinaw Railroad at Allegan. Cincinati, Jackson & Mackinaw Railroad at Homer. Cincinati, Jackson & Mackinaw Railroad at Hanover. Cincinati, Jackson & Mackinaw Railroad at Tecumseh. Chicago & Grand Trunk Railroad at Schoolcraft. Chicago & Grand Trunk Railroad at Lansing. Canada & St. Louis Railroad at Sturgis. Flint & Pere Marquette Railroad at Carleton. Grand Rapids & Indiana Railroad at Grand Rapids. Grand Rapids & Indiana Railroad at Plainwell. Grand Rapids & Indiana Railroad at Kalamazoo. Grand Rapids & Indiana Railroad at Sturgis. Michigan Central Railroad at Three Rivers. Michigan Central Railroad at Homer. Michigan Central Railroad at Albion.

Michigan Cent. Michigan Cent. Michigan Cent. Michigan Cent. Michigan Cent. Michigan Cent. Michigan Cent. Michigan Cent. Toledo, Ann A. Toledo	ral Railiral	road at lead a	Lansin Jackso Detroit West I Kalam Jackso ichiga ic	n & F t, Wood Detroi azoo. n, Jaco n Rai n Rai n Rai n Rai n Rai toit & e in th lroad derail pted? nal Co int cr grade i or u  ove tra 8 feer r-head as re	t. Wandward t	Branat Feat Piat Alat Duces. te, an idson witches State railro	ch. cderma ttsfield exis. indee.  d at w and Joes in op chines ate, at ad, ck, ons,	n. Junction. hat locality? erome. peration?
Number of station	ns on wi	hole line		_	_ •	_	_	288
Same in Michiga			· -	_	-	_	-	87
	_,							
			Employ	jés.				
Number persons:	regularly	y emplo	yed or	n all 1	roads	opera	ted	
by company, in	cluding	officials	, -	-	-	-	-	11,974
Same in Michigan	1, .		-	-	-	-	-	1,879
Classify your emp	olovés a	s per fol	lowing	z list:				
	•	•		,				Number.
Baggagemen,			_	_	_	-	-	160
Brakemen,			-	-	-	-	-	665
Conductors,		. <u>-</u>	-	-	-	-	-	320
Engineers,		· -	-	-	-	-	-	356
Firemen,		-	-	-	-	-	-	583
Laborers, Shopmen,		-	-	-	-	-	-	1,477 1,020
Yardmen,		-	-	-	-	-	-	1,020
Others,		- -	-	-	-	-	-	6,375

#### REPAIRS AND BENEWALS.

#### Fencing in Michigan.

How many miles of fencing have you?		1,141.56						
Give the number of miles required to complete fer sides of your track, in Michigan, and the con- which needed.		. None.						
Road Bed and Track.	-							
Number of track sections in Michigan,  Average length of sections—miles,	-	. 100 . 5.67						
Average number of men in each section gang,	-	_ 3.01						
Number of new ties put in whole line during the y	ear,	711,678						
Number of new ties put in track in Michigan,	•	_ 166,986						
Average number of new ties per mile of road, whole	e line,	_ 505						
New rails put in track: Steel (15,350 tons), 148.91 miles.								
Total miles of track laid with new rails,	_	<b>148.91</b>						
Bridges and Culverts in Michiga	an.							
Amount of trestle work replaced with earth du	uring year	τ,						
—linear feet,	-	51.50						
Timber culverts replaced during the year,	- 5	. 51 1 .						
With timber,—number, New bridges built during the year,—number	5	1						
At Monroe, Pratt truss, iron, built in September	r. length 3							
At Monroe, Pratt truss, iron, built in September, length 360 feet.								
ROLLING STOCK.		Present						
	Number.	Present Estimated Value.						
Number of locomotives of more than 30 tons		Present Estimated Value.						
Number of locomotives of more than 30 tons weight, exclusive of tender.	Number.	Present Estimated Value.						
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons		Present Estimated Value.						
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons weight, exclusive of tender,	498							
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons	498	Present Estimated Value.  \$1,869,900 00						
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,	498							
Number of locomotives of more than 30 tons weight, exclusive of tender, Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including	498 34 532							
Number of locomotives of more than 30 tons weight, exclusive of tender, Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including official cars,	498							
Number of locomotives of more than 30 tons weight, exclusive of tender, Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including official cars, Number of passenger cars—8 wheel, including official cars,	498 34 532 24 184							
Number of locomotives of more than 30 tons weight, exclusive of tender, Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including official cars, Number of passenger cars—8 wheel, including official cars, Number of express and baggage cars,	498  34  532  24  184  97							
Number of locomotives of more than 30 tons weight, exclusive of tender, Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including official cars, Number of passenger cars—8 wheel, including official cars, Number of express and baggage cars, Number of box freight cars,	498  34  532  24  184  97  11,908							
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including official cars,  Number of passenger cars—8 wheel, including official cars,  Number of express and baggage cars,  Number of box freight cars,  Number of stock cars,	498  34  532  24  184  97  11,908  1,467							
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including official cars,  Number of passenger cars—8 wheel, including official cars,  Number of express and baggage cars,  Number of box freight cars,  Number of stock cars,  Number of platform cars,	498  34  532  24  184  97  11,908  1,467  1,509							
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including official cars,  Number of passenger cars—8 wheel, including official cars,  Number of express and baggage cars,  Number of box freight cars,  Number of stock cars,	498  34  532  24  184  97  11,908  1,467							
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including official cars,  Number of passenger cars—8 wheel, including official cars,  Number of express and baggage cars,  Number of box freight cars,  Number of stock cars,  Number of platform cars,  Number of ore and coal cars,  Number of conductors' way cars,	498  34  532  24  184  97  11,908  1,467  1,509  3,822							
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including official cars,  Number of passenger cars—8 wheel, including official cars,  Number of express and baggage cars,  Number of box freight cars,  Number of stock cars,  Number of platform cars,  Number of ore and coal cars,  Number of conductors' way cars,  Other cars as follows:	498  34  532  24  184  97  11,908  1,467  1,509  3,822	<b>\$</b> 1,869,900 00						
Number of locomotives of more than 30 tons weight, exclusive of tender,  Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  Number of passenger cars—12 wheel, including official cars,  Number of passenger cars—8 wheel, including official cars,  Number of express and baggage cars,  Number of box freight cars,  Number of stock cars,  Number of platform cars,  Number of ore and coal cars,  Number of conductors' way cars,	498  34  532  24  184  97  11,908  1,467  1,509  3,822  259  224	<b>\$1,869,900 00</b>						

Number of locomotives equipped with power brakes, 511  Number of passenger-train cars equipped with power brakes, All.  Number of freight cars equipped with power brakes, None.  What patterns of power brakes have you in use? Westinghouse and Steam Driver brake.  Are your freight cars being equipped with automatic couplers as required by Act. No. 147, Session Laws of 1885? Yes.  What pattern or patterns have you adopted for use? Ames & Janney. How are your passenger cars heated? Baker heaters and also the Martin system of steam heating from the engine.
MILEAGE, TRAFFIC, ETC.
Train Mileage.
Miles run by passenger trains during the year, 3,947,496 Miles run by freight trains during the year, 7,298,395
Total mileage of trains earning revenue, 11,245,891
Passenger Traffic.
Number of through passengers carried, Number of local passengers carried, Number of passengers carried, Total number of passengers carried,  Total passenger mileage, or passengers carried one mile,  222,555,555
Average distance traveled by each passenger, _ 50.50
Average amount received from each passenger,
Freight Traffic.
Number of tons of through freight carried, Number of tons of local freight carried, 8,783,489
Total tons of freight carried, 10,020,599
Total mileage of through freight, 541,456,268 Total mileage of local freight, 5317,553,554
Total freight mileage, or tons carried one mile, 1,859,009,822
Average ton haul for through freight,

100.00

10,020,599

1889.) LAKE SHORE & M.							). 529		
Average amount received for	anah	ton L	onl				<b>\$</b> 1 23.11		
Average rate per ton per mile	eacu	un n	8UI,			_	00.601		
Average rate per ton per mile						· -	00.689		
Average rate per ton per mile	e, rece	el Aed	ior a	II Irei	gnt,	-	00.664		
Freight Forwarded at Michigan Stations.									
<b>a</b> .			•				Tons.		
Grain,	-	-	-	-	-	-	69,904		
Flour,	<i>-</i> .	-	-	-	-	-	110,627		
Provisions (beef, pork, lard,	etc.),	_	-	-	-	-	13,418		
Animals,	_	-	_	-	_	- '	26,412		
Other agricultural products,	-	-	-	_	_	-	74,764		
Lumber and forest products,	-	_	_	_		_	365,804		
Coal		-	-	_	_	-	6,204		
Plaster, lime and cement,	-	_	_	_	_	_	27,493		
Salt,	-		-				19,423		
	_		_	-	_		4,865		
Petroleum, Pig and bloom iron, Other iron and castings.	-	-	_	-	-	-	13,702		
Other iron and castings,	-	-	_	-		-	30,022		
Stone, brick and sand,		-		-	-	-	55,331		
Manufactures,	-	-	-		-	_	74,884		
Merchandise and other article	- - not	-		a-a-	-	-	100,747		
Merchandise and Diner article									
	os not	enur	nerau	ea abc	,,,	-			
Total forwarded,	- -	-	nerau -	- -	- -	-	993,600		
	-	-	-	-	-	-			
Total forwarded,	-	-	-	-	-	-			
Total forwarded,	-	-	-	-	-	- oad. Tons.	993,600 Per Cent.		
Total forwarded,  Tonnage of Ar	-	-	-	-	-	- pad. Tons. 917,589	993,600  Per Cent. 9.16		
Total forwarded,  Tonnage of Ar  Grain, Flour,	- ticles : - -	- Transj - -	-	-	-	Tons. 917,589 420,507	993,600  Per Cent. 9.16 4.20		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard,	- ticles : - -	- Transj - -	-	-	-	Tons. 917,589 420,507 349,514	993,600  Per Cent. 9.16 4.20 3.49		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals,	etc.),	- Transj - -	-	-	-	Tons. 917,589 420,507 349,514 455,138	993,600  Per Cent. 9.16 4.20 3.49 4.54		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products,	etc.),	- <b>Trans</b> j - - - -	-		-	Tons. 917,589 420,507 349,514 455,138 350,631	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products,	etc.),	- Transj - - - - -	-	-	- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal,	- ticles : - etc.), - -	- Transj - - - - - -	-		- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement,	- ticles : - etc.), - - - -	- Trans <sub>1</sub> - - - - - - -	-		- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288 142,206	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05 1.42		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt,	- ticles : - etc.), - - - -	- Transj - - - - - -	-		- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288 142,206 46,531	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05 1.42 .46		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum,	etc.),	- <i>Trans</i>	- ported - - - - - - - -		- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288 142,206 46,531 486,302	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05 1.42 .46 4.85		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and steel	etc.),	- <i>Trans</i>	-		- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288 142,206 46,531 486,302 26,857	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05 1.42 .46 4.85 .27		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and steel Pig and bloom iron,	etc.),	- <i>Trans</i>	- ported - - - - - - - -		- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288 142,206 46,531 486,302 26,857 190,139	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05 1.42 .46 4.85 .27 1.90		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and steel Pig and bloom iron, Other iron and castings,	etc.),	- <i>Trans</i>	- ported - - - - - - - -		- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288 142,206 46,531 486,302 26,857 190,139 574,423	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05 1.42 .46 4.85 .27 1.90 5.73		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and steel Pig and bloom iron, Other iron and castings, Ores,	etc.),	- <i>Trans</i>	- ported - - - - - - - -		- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288 142,206 46,531 486,302 26,857 190,139 574,423 984,474	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05 1.42 .46 4.85 .27 1.90 5.73 9.82		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and steel Pig and bloom iron, Other iron and castings, Ores, Stone, brick and sand,	etc.),	- <b>Trans</b>	- ported - - - - - - - -		- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288 142,206 46,531 486,302 26,857 190,139 574,423 984,474 952,040	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05 1.42 .46 4.85 .27 1.90 5.73 9.82 9.50		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and steel Pig and bloom iron, Other iron and castings, Ores, Stone, brick and sand, Manufactures,	etc.),	- <b>Trans</b>	- ported	- 	- ire Ro	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288 142,206 46,531 486,302 26,857 190,139 574,423 984,474	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05 1.42 .46 4.85 .27 1.90 5.73 9.82		
Total forwarded,  Tonnage of Ar  Grain, Flour, Provisions (beef, pork, lard, Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and steel Pig and bloom iron, Other iron and castings, Ores, Stone, brick and sand,	etc.),	- <b>Trans</b>	- ported	- 	- I	Tons. 917,589 420,507 349,514 455,138 350,631 820,222 ,408,288 142,206 46,531 486,302 26,857 190,139 574,423 984,474 952,040	993,600  Per Cent. 9.16 4.20 3.49 4.54 3.50 8.19 14.05 1.42 .46 4.85 .27 1.90 5.73 9.82 9.50 3.61		

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do

Total tons carried,

you take their freights at the depot, or at the office of such express

companies?

American Express Company, Buffalo to Cleveland, pays thirty cents per 100 pounds for through, and 15 to 50 cents per 100 pounds for way freight. United States Express Company, Buffalo to Chicago, pays from 20 to 85 cents per 100 pounds on freight.

These companies do a general express business and deliver freight to us

at our depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Total miles of wire, entire road 12,412.

Western Union Telegraph Company, own in Michigan 1,868 miles. Lake Shore & Michigan Southern Railway, own in Michigan 415 miles.

#### Transportation Companies.

#### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Palace Car Company, New York City.

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

February 4, Cornelius Schnell, employé of Peninsular Car Works, Detroit. Caught between cars; lack of caution.

February 7, Fred Fragner, brakeman, Warner. Coupling cars; care-

lessness.

March 5, Robert Gulliver, not employé, occupation not known, Burr Oak. Run over by train; intoxicated and asleep on track.

March 5, Jas. Spurgeon, freight conductor, Jonesville. Coupling; hand

hurt and lock-jaw resulted, from which he died.

March 22, Frank Micheclok, not employé, laborer, Wyandotte. Crossing collision (highway).

April 9, Emil Lumke, not employé, not known, Detroit. Walking on

track; trespasser.

May 24, Unknown man, tramp, Bronson. Run over by train; trespasser, May 25, Conrad Buehrer, section laborer, between Adrian and Lenawee junction. Fell from train; carelessness.

June 13, Edward Mc Guickers, not an employé, Kalamazoo. Walking

on track; trespasser.

July 3, Wm. Anderson, not an employé, Detroit. Run over by cars; trespasser.

July 6, Leonard Diber, not an employé, Adrian. Asleep on track; trespasser, struck by locomotive.

July 25, Jacob F. Haag, brakeman, Deerfield. Fell from train.

October 3, August Beckman, farm laborer, Quincy. Highway collision; lack of caution.

October 25, Amos Hamley, farm laborer, near Ray. Walking on track; intoxicated trespasser.

October 29, Melvin Percy, section laborer, near Condit. Struck by train; lack of caution.

November 7, C. H. Vandel, brakeman, Detroit. Struck by overhead bridge.

November 26, Wm. Murray, not an employe, Detroit. Highway colli-

sion; carelessness.

November 26, Jas. Adams, not an employé, Holland. Walking on track, struck by train; trespasser.

December 3, Wm. Erb, carpenter, Lansing. Fell from ladder; purely

accidental.

December 19, David Mosier, driver of bakers wagon, Detroit. Highway collision; carelessness.

#### INJURED.

January 14, Geo. D. Cleveland, lumber dealer, Homer. Fell under train, left leg off; Passenger.

April 10, Geo. Lamb, brakeman, Jonesville. Coupling; left leg off. April 3, Carl E. Southwell, switchman, Eagle Mills. Coupling; left

second finger gone.

April 26, J. F. Haag, brakeman, Monroe. Foot caught in frog; left big

toe amputated.

May 22, John George, merchant, Hudson. Walking on track, struck by

train; left leg broken, head hurt.

July 17, John A. Washburn, laborer, Jonesville. Hand car derailed;

skull fractured.

August 1, Samuel Halley, 7 years old, Monroe. Stealing ride; fell off

train, both legs off.

August 4, D. H. Navarre, brakeman, Monroe. Coupling; right second

finger off.

August 9, Layman Gage, 6 years old, Detroit. Playing on track jumping

on and off cars; left leg off.

August 10, A. P. Tierson, section laborer, Woodstock. Struck by car;

breast bone injured, one rib broken and one fractured.

August 20, John P. Lindsley, not employé, Hopkins. Highway colli-

sion; contusion of left shoulder and face.

August 20, Mrs. A. Button, not an employé, Hopkins. Highway collision; leg broken.

September 12, Elias Kistler, passenger, White Pigeon. Jumped off

moving train; two limbs fractured and internal injuries.

October 12, John Sacker, brakeman, Hillsdale. Coupling; first and second left fingers off.

November 1, Geo. Solean, brakeman Detroit. Coupling; end of right fourth finger off.

November 6. John Elliott, brakeman, Quincy. Coupling; left first fin

November 7, Adelbert Hazen, yard master, White Pigeon. Coupling; left thumb off.

November 22, Ben. Hagen, brakeman, Tecumseh. Was assisting in unloading a large safe; it fell on his left leg, breaking it and crushing his foot.

November 28, E. F. Morley, conductor, Trenton. Coupling; left fourth finger off.

December 5, Geo. W. Craig, brakeman, Jonesville. Coupling; end of left first finger off.

December 7, Frank Sanborn, laborer, Hillsdale gravel pit. Coupling; fingers mashed and arm bone broken.

December 23, Patrick Braden, brakeman, West Detroit. Coupling; all of right fingers fractured.

December 24, D. W. Whistler, brakeman, Jonesville. Coupling; fingers crushed.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.		Injured.			
Cause of Accident.	Passengers, Employ		Others.	Passengers,	Employés.	Others.	
Getting on and off trains		2 2 1	4 1	i i	12 1		
Total		7	18	2	16		

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	20
Number of persons injured during the year,	23
Number of casualties purely accidental,	4
Number resulting from lack of caution, carelessness, or mis-	
conduct.	<b>28</b>
Persons killed or injured while intoxicated,	2
Trespassers and tramps killed or injured,	9
Suicides.	

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

·	Killed.	Injured.	Total.
Baggagemen Brakemen		10	
Brakemen Conductors Engineers	1	1	13 2
Firemen Laborers	2	8	5
Shopmen Yardmen Not classified above. •	1	2	2
Total	7	16	28

STATE OF OHIO, COUNTY OF CUYAHOGA, John Name 1 7

John Newell, President, and C. P. Leland, Auditor, of the Lake Shore and Michigan Southern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. B.]

Signed,

JOHN NEWELL. C. P. LELAND.

Subsbribed and sworn to before me this 24th day of April, A. D. 1890.

L. ROOD LOOMIS, Notary Public.

#### ANNUAL REPORT

#### OF THE

#### DETROIT & CHICAGO RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed April 29, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, Ohio.
Secretary and Treasurer, CYRUS P. LELAND, Cleveland, Ohio.

#### DIRECTORS.

John Newell, Cleveland, Ohio.
Cornelius Vanderbilt, New York City.
W. K. Vanderbilt, New York City.
Ashley Pond, Detroit, Mich.
Chas. F. Cox, New York City.
Edwin D. Worcester, New York City.
Saml. F. Barger, New York City.
Cyrus P. Leland, Cleveland, Ohio.
Dwight W. Pardee, New York City.
Terms expire when successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—November 19, 1888.							
Number of stockholders at date of last election,	-	11					
Number of stockholders in Michigan at same date,	-	1					
Amount of full paid stock held in Michigan at same date,	\$1,000	00					
Date of annual meeting of stockholders,—Second Wednesday in November.							
Fiscal year of company ends,—December 31.							
General offices of the company are located at Cleveland, Ohio.							

#### REMARKS.

Entire capital stock owned by the Lake Shore & Michigan Southern Railway Company.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or Par value of shares, Average price received per share No. of shares issued, Amount paid in on common, - Total amount paid in, as per bool Paid in per mile of road owned by -67.60 miles,	\$100 , 100 100  ks of the compa	0 00 0 00 0,000 - he cor ny,	\$1,00 npany \$1	0,000 7, 4,792	00	ŕ	0,000 00
	NDED :	_					
Funded debt,	-	-	-	-	-	-	None.
UNF	UNDED	DEBT					
Unfunded debt,	-		-	-	-	-	None.
RECA	APITUL.	ATION.					
Total amount of stock and debt, Stock and debt per mile of road,		-	-	-	<u>-</u>		0,000 00 1,762 90
COST OF ROA	AD AN	D <b>EQ</b> U	прмі	ent.			
Total Cost for Construction and Equi	pment o	f Road	l and l	Brancl	res Bu	ilt by C	company.
Total expended for construction, Average cost per mile of roa —67.60 miles, Proportion of cost of construction	d not	_	-	sidir - -	_	76	5,557 58 5,576 29 5,712 07
DESCRI	PTION	OF R	OAD.				
Date when the road was opened for use between its present termini: 1874.							
ж	IAIN L	NE.					21. 40013 -
Length completed in Michigan, Length completed in Ohio,	-	-	-		62.9 4.6	4	iles. 100ths.
Total length completed,	-	-	-	-		-	67.60
Total length of road belonging to Total length of road belonging to Michigan,	this o	ompa ompa	ny, ny in	-	67.6	0	62.94

						. Miles. 100ths.
Aggregate length of sidings, span not above enumerated, Same in Michigan,	purs,	and	other - -	track	<b>4.32</b>	4.00
Aggregate length of tracks be pany, computed as a single to	elong rack,	ing t	o thi	s com	71.92	
Same in Michigan,	<u>.</u> .	-	-	-	-	66.94
Gauge of track, 4 feet, 81 inches	e <b>s.</b>				•	

STATE OF OHIO, COUNTY OF CUYAHOGA, 88.

John Newell, President, and Cyrus P. Leland, Secretary, of the Detroit & Chicago Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[S. L. OF R. R.]

Signed,

JOHN NEWELL. CYRUS P. LELAND.

Subscribed and sworn to before me this 24th day of April, A. D. 1890.

L. ROOD LOOMIS, Notary Public.

#### ANNUAL REPORT

#### OF THE

### DETROIT, HILLSDALE & SOUTHWESTERN RAILROAD COMPANY,

For the Year Ending December 39, 1889.

[Filed April 29, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ELIJAH SMITH, Boston, Mass.

Secretary and Treasurer, P. W. SMITH, Boston, Mass.

Transfer Agent, FARMERS LOAN & TRUST CO., New York City.

#### DIRECTORS.

ELIJAH SMITH, New York, N. Y.
JAMES P. COOK, Salem, Mass.
CALEB W. LORING, Boston, Mass.
EDWARD L. GIDDINGS, Boston, Mass.
P. W. SMITH, Boston, Mass,
J. W. POTTER, Boston, Mass.
CHARLES E. GUILD, Boston, Mass.
M. V. B. EDGERLY, Springfield, Mass.
GEORGE B. WARREN, Troy, N. Y.

Terms expire January 13, 1891.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—January 30, 1875.								
Number of stockholders at date of last election,	-	338						
Number of stockholders in Michigan at same date,	-	2						
Amount of full paid stock held in Michigan at same date,	-	<b>\$1,700 00</b>						
Date of annual meeting of stockholders,—Second Tuesday in January.								
Fiscal year of company ends,—January 1.								
General offices of the company are located at Ypsilanti, Michigan.		•						

#### REMARKS.

The property of the Detroit, Hillsdale & Southwestern Railroad Company is leased in perpetuity to the Lake Shore & Michigan Southern Railway Company, lease dated September 5, 1881. The terms are 3 per cent per annum until July 1, 1883, and 4 per cent per annum thereafter.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, \$1,350,000 00  Par value shares, \$100 00  Average price received per share, 100 00
Number of shares issued, 13,500
Amount paid in on common, \$1,350,000 00
Total amount paid in as per books of the company, 1,350,000 00
Paid in per mile of road owned by
company, miles,—65.20 \$20,705 52
ANALYSIS OF DERT ACCOUNTS

#### FUNDED DEBT.

Funded debt,	-	-	-	-		-	-	-	None.
UNFUNDED DEBT.									
Unfunded debt,	-	-	-	-	-	-	-	-	None.
RECAPITULATION.									
Total amount of s	tock a	ınd de	bt,	-	-	-	-	-	<b>\$1,350,000 00</b>
Stock and debt pe	r mil	e of r	oad,	-	-	-	-	-	20,705 52
COST OF ROAD AND EQUIPMENT.									
Total Cost for Construction and Equipment of Road, and Branches Built by Company.									
Total expended for Average cost of co				ile of	road.	not i	nelud	ing-	<b>\$</b> 1,288,648 59
sidings,—65.20	miles	,		_	_ `	_	-	-	19,764 55
Proportion of cos Total expended for	t of co	onstru iome	iction nt.	tor N	lichig	an,	-	-	1,288,648 59 53,511 74
Average cost per All in Michigan,	mile,	•	-	-	-	-	-	-	820 73 820 73
The minning of the state of the	-		-	_	-	-	-	_	020 10

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

November, 1872.

#### MAIN LINE.

Length completed in Michigan,	-	-	-	-	Miles, 100ths, 65.20	Miles. 100ths,
Total length completed,	-	-	-	-		65.20
Total length of road belonging to Total length of road belonging to in Michigan,	this this	compa compa	any, any	-	<b>65.20</b>	65.20

Aggregate length in Michigan, of sidings, spurs,	Miles. 100ths.	Miles. 100ths.
and other tracks not above enumerated,	4.29	4.00
Same in Michigan,		4.29
Aggregate length of tracks in Michigan belonging to this company, computed as single track,	69.49	
Same in Michigan,		69.49
0 64 1 46 401 1		

Gauge of track, 4 feet 8½ inches.

STATE OF NEW YORK, SS.

Elijah Smith, President, P. W. Smith, Secretary, of the Detroit, Hillsdale & Southwestern Railroad company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

ELIJAH SMITH. P. W. SMITH.

Subscribed and sworn to before me this 18th day of April, A. 'D. 1890.

L. R. Kidder, Notary Public.

#### ANNUAL REPORT

#### OF THE

## DETROIT, MONROE & TOLEDO RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed April 29, 1890,]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, Ohio. Secretary and Treasurer, C. P. LELAND, Cleveland, Ohio.

#### DIRECTORS.

C. VANDERBILT, New York City.
W. K. VANDERBILTA New York City.
JOHN NEWELL, Cleveland, Ohio.
E. D. WORCESTER, New York City.
G. H. WORCESTER, New York City.
ASHLEY POND, Detroit, Mich,
GEO. C. GREEN, Cleveland, Ohio.
P. P. WRIGHT, Cleveland, Ohio.
ADDISON HILLS, Cleveland, Ohio.
C. P. LELAND, Cleveland, Ohio.

Terms expire when successors are elected.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Number of stockholders at date of last election,	-	-	-	-	-	2	
Number of stockholders in Michigan at same date,	-	-	-	-	-	1	
Amount of full paid stock held in Michigan at same	date	,	-	-	-	<b>\$100 00</b>	
Date of annual meeting of stockholders,—Fourth Tuesday in April.							
Fiscal year of company ends,—December 31.							
General offices of the company are located at Clevel	land,	, Ob	io.				

## REMARKS.

Entire capital stock, except one share owned by Lake Shore & Michigan Southern Railway Company.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association,	\$414,100 00
Par value of shares, \$100 00	•
No. of shares issued, 4,141	
Amount paid in on common, \$414,100 00	
Total amount paid in as per books of company,	414,100 00
Paid in per mile of road owned by company,—	•
62.36 miles, \$6,640 47	
62.36 miles, \$6,640 47	

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	Wh	en Due.	Where	Payable.	Amou	nt.
First mortgage	7%	1908				\$924,00	0 00
Total funded debt						<b>\$924,</b> 00	0 00
UN	FUNDED	DEBT					
Unfunded debt,	-	-	-		-	No	ne.
RE	CAPITUI	ATION.					•
Total funded debt,	-	-	-		<b>\$</b> 92	4,000	00
Total debt liabilities,	-	-	-		<b>\$</b> 92	4,000	00
Amount of debt liabilities per r Total amount of stock and debt Stock and debt per mile of road	·, -	oad,— - -	-62.36 n - -	niles, _	1,33	4,832 8,100 1,472	00
INTEREST	ON THE	FUND	ED DEF	BT.			
What is the amount of same du Was it paid for the last year?		year,	-		<b>\$</b> 6	4,680	00
COST OF R	OAD AN	ID EQ	UIPME	NT.			
Total Cost for Construction and Eq	uipment	of Road	d, and B	ranches I	Built by	Compo	ıny
Total expended for construction Average cost of construction pe sidings,—62.36 miles,		of road,	, not in	cluding	•	1,600 2,155	
Proportion of cost of construction	ion for l	Michig	an,			6,381	

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: July, 1857.

## MAIN LINE.

Length completed in Michigan, Length completed in Indiana,	Miles. 100ths. Miles. 100ths. 54.67 7.69
Total length completed,	62.36
Length of double track on main line, in Ohio,	2.45
Total length of road belonging to this company, Total length of road belonging to this company, in Michigan	62.36 54.67
in Michigan, Aggregate length of sidings, spurs, and other tracks not above enumerated, Same in Michigan,	22.03 18.26
Aggregate length of tracks belonging to this company, computed as single track,	86.84
Same in Michigan,	72.93
Course of treak A fact 81 inches	

Gauge of track, 4 feet 81 inches.

STATE OF OHIO, COUNTY OF CUYAHOGA, 88.

John Newell, President, and C. P. Leland, Secretary, of the Detroit, Monroe & Toledo Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, JOHN NEWELL. C. P. LELAND.

Subscribed and sworn to before me this 24th day of April, A. D. 1890, L. Rood Loomis, Notary Public.

#### ANNUAL REPORT

#### OF THE

## FORT WAYNE & JACKSON RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed May 18, 1890.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, SAMUEL SLOAN, New York.

Secretary and Treasurer, ROSEWELL G. ROLSTON, New York.

Transfer Agent, THE FARMERS' LOAN & TRUST CO., New York.

#### DIRECTORS.

Samuel Sloan, New York, N. Y.
Rosewell G. Rolston, New York, N. Y.
Lawrence Turnure, New York, N. Y.
Whittlesey D. Searls, New York, N. Y.
Amos Root, Jackson, Mich.
Percy R. Pyne, New York, N. Y.
Stephen S. Palmer, New York, N. Y.
Henry Beste, New York, N. Y.
William S. Sloan, New York, N. Y.
Dwight Merriman, Jackson, Mich.
James F. Joy, Detroit, Mich.

Terms expire February. 1890.

## STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—December 31, 18	<b>79.</b>		,
Number of stockholders at date of last election,	-	-	310
Number of stockholders in Michigan at same date,		•	9
Amount of full paid stock held in Michigan at same date,	-	- \$13	6,300
Date of annual meeting of stockholders,—January each year.			
Fiscal year of company ends December 31.			
General offices of the company are located at Jackson Michiga	n and	Grand Ce	ntral
Depot, New York City.			

#### REMARKS.

Leased to Lake Shore & Michigan Southern Railway Company, dated August 24, 1882, in perpetuity, rental \$126,027.88 per annum.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, No. of shares issued, 27,245	<b>\$</b> 2,727,554 80
Amount paid in on common, \$2,291,421 52 Amount paid in on preferred, 436,133 28	
Total amount paid in, as per books of the company, Paid in per mile of road owned by company,—97.83 miles, \$27,880 55	2,727,554 80

#### ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Funded debt,	-	-	-	-	-	-	-	-	-	None.
			UNFU	INDED	DEB	r.				
Unfunded debt,	-	-	-	-	-	-	-	-	-	None
RECAPITULATION.										
Total amount of a Stock and debt p	stock er mi	and d	lebt, road,-	_9 <b>7</b> .8	3 mile	- 8,	<u>-</u> -		\$2,72°	7,554 80 7,880 85

# COST OF ROAD AND EQUIPMENT. Total Cost for Construction and Equipment of Road, and Branches Built by Company.

Total expended for construction,

Average cost of construction per mile of road, not including sidings,—97.83 miles,

Proportion of cost of construction for Michigan,

\$2,719,579 53

27,799 03
1,238,168 79

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: Jackson, Michigan, to Fort Wayne, Indiana, December 15, 1870.

## MAIN LINE.

				Miles. 100ths.	Miles. 100ths.
Length completed in Michigan,	-	-	-	44.54	
Length completed in Indiana,	-	-	-	<b>53.29</b>	
Total length completed,	-	-	-		97.83
Total length of road belonging to Total length of road belonging to	this this	compa	any, anv	97.83	
in Michigan,	-	-	-		44.54

	Miles. 100ths.	Miles. 100ths.
Aggregate length of sidings, spurs, and other tracks not above enumerated, Same in Michigan,	19.28	5.29
Aggregate length of tracks belonging to this company, computed as single track,	117.11	
Same in Michigan,		49.83

Gauge of track, 4 feet 81 inches.

STATE OF NEW YORK, COUNTY OF NEW YORK, ss.

Samuel Sloan, President, and Rosewell G. Rolston, Secretary, of the Ft. Wayne & Jackson Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. s. of R. R.] · Signed,

SAML. SLOAN. R. G. ROLSTON.

Subscribed and sworn to before me this 6th day of May, A. D. 1890.

LUDWIG R. MILLER, Notary Public.

## ANNUAL REPORT

#### OF THE

## KALAMAZOO, ALLEGAN & GRAND RAPIDS RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed April 29, 1890.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, J. H. WADE. Cleveland, Ohio. Secretary, C. P. LELAND, Cleveland, Ohio. Treasurer, W. S. JONES, Cleveland, Ohio.

#### DIRECTORS.

O. M. BARNES, Lansing, Mich.
H. B. PAYNE, Cleveland, Ohio.
J. H. WADE, Cleveland, Ohio.
C. P. LELAND, Cleveland, Ohio.
JOHN NEWELL, Cleveland, Ohio.
GEO. F. ELY, Cleveland, Ohio.
J. M. JONES, Cleveland, Ohio.
J. H. WADE, JR., Cleveland, Ohio.
W. S. JONES, Cleveland, Ohio.

Terms expire first Wednesday in May.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Number of stockholders at date of last election,	-	-	-	•	-	-	92
Number of stockholders in Michigan at same date,	-	-	-	-	-	-	14
Amount of full paid stock held in Michigan at same	date	, -	-	-	-	- \$2	06,600
Date of annual meeting of stockholders,—First Wednesday in May.							
Fiscal year of company ends, December 31.							
General offices of this company are located at Clevel	and, (	Ohio	<b>).</b>				

#### REMARKS.

This property is controlled and operated by the Lake Shore & Michigan Southern Railway Company.

n	4	
.,	4	-7

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of	<b>\$</b> 610,000 00	
Par value of shares,		
share, 100 No. of shares issued, 6,100		
Amount paid in on common,	\$610,000 00	
Total amount paid in, as per books of the o	company, .	<b>\$</b> 610,000 00
Paid in per mile of road owned by company,  —58.42 miles,	\$10,441 00	

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where P	ayable. Amoun	ıt.
First mortgage	5%	July 1, 1988		\$840,000	0 00
Total funded debt				\$840,000	000
U	nfundei	DEBT.			
Unfunded Debt,				Non	10.
F	ECAPITU	LATION.			
Total funded debt,			-	\$840,000	00
Total debt liabilities,			-	\$840,000	<del>00</del>
Amount of debt liabilities per	mile of	road,—58.42	miles,	14,378	00
Total amount of stock and	debt,			<b>\$1,450,000</b> (	00
Stock and debt per mile of ros	ad,—58.4	2 miles,		24,820	00
INTEREST	ON THE	FUNDED DE	BT.		
What is the amount due each Was it paid for the last year?		·		\$42,000	00

## COST OF ROAD AND EQUIPMENT.

m . 1	7 77 1 4 4 7		~
Total Cost for Construction	and Riagramantat H	load and Reambhas Husit i	M
I did dot joi donei aqui	with Educations of Ti	ioud unu Di anches Dain o	y Company.

Total expended for construction, Average cost per mile of road, not including sidings,	-	<b>\$1,450,000 00</b>
58.42 miles, Proportion of cost of construction for Michigan,	-	24,820 00 1,450,000 00

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: March 1, 1869.

MAIN LINE.	Miles, 100ths, Miles, 100ths,
Length completed in Michigan,	58.42
Total length completed,	58.42 58.42
Michigan, Aggregate length of sidings, spurs, and other	58.42
tracks not above enumerated,	10.36 10.36
Aggregate length of tracks belonging this company, computed as single track,	68.78
Same in Michigan,	68.78
Gauge of track, 4 feet 8½ inches.	•

STATE OF OHIO, COUNTY OF CUYAHOGA, SS.

J. H. Wade, President, and C. P. Leland, Secretary, of the Kalamazoo, Allegan & Grand Rapids Railroad Company, being duly sworn, depose and and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, J. H. WADE. C. P. LELAND.

Subscribed and sworn to before me this 25th day of April. A. D. 1890.

L. Rood Loomis, Notary Public.

## ANNUAL REPORT

#### OF THE

## KALAMAZOO & WHITE PIGEON RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed April 29, 1890.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, Ohio. Secretary and Treasurer, C. P. LELAND, Cleveland, Ohio.

## DIRECTORS.

JOHN NEWELL, Cleveland, Ohio.

J. H. WADE, Cleveland, Ohio.

C. P. LELAND, Cleveland, Ohio.

D. P. CLAY, Grand Rapids, Mich.

D. B. MERRILL, Kalamazoo, Mich.

J. W. Osborn, Kalamazoo, Mich.

M. E. WATTLES, Kalamazoo, Mich.

Terms expire when successors are elected.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Number of stockholders in Michigan at same date,—One,—L. S. & M. S. R'y Co. Fiscal year of company ends December 31.

General offices of the company are located at Cleveland, Ohio.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or a	articles of association,	<b>\$</b> 230,900 00
Par value of shares, Average price received per share, No. of shares issued,	.00 001.	
Amount paid in on common,	\$230,900 00	
Total amount paid in as per bool	ks of the company,	<b>\$230,900 00</b>

Paid in per mile of road owned by company
—36.57 miles,

**\$6,295** 00

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

					<del></del> ;		
Class, Character and Date of Issue.	Rate of Interest.	When 1	Dtie.	Where Pa	yable.	Amou	nt.
First mortgage	5%	July 1, 194	0			\$400	0,000
Total funded debt						\$400	0,000
, UNF	UNDED	DEBT.					
Unfunded debt,	-		-	-	-	No	ne.
REC	APITUI	LATION.					
Total funded debt,	-		-	-	<b>\$</b> 400	,000	00
Total debt liabilities,	-		-	-	<b>\$</b> 400	,000	00
Amount of debt liabilities per mi	ile of r	oad,—36.	57 mile	8,	10	,937	92
Total amount of stock and d	ebt,		-	-	<b>\$</b> 630	,900	00
Stock and debt per mile of road,	86.5	7 miles,		-	17	,251	84
INTEREST OF	N THE	FUNDED	DEBT.				
What is the amount of same due Was it paid for the last year?		year?	-	-	<b>\$2</b> 0	,000	00
COST OF RO	AD Al	ND EQUI	PMENT.	•			
Total Cost for Construction and Equip	oment o	f Road and	l Branci	res Buil	t by C	o <b>mpa</b>	ny.
Total expended for construction,			4 åm aller å	ı: <u>.</u>	<b>\$</b> 610	,000	00
Average cost of construction per sidings,—36.57 miles,	-		t includ	ung -		,680	
Proportion of cost of construction	n tol 1	aicnigan,	-	-	OTO	,000	w

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: May 3, 1867.

MAIN LINE.		
Length completed in Michigan,	liles. 100ths. 36.57	Miles. 100ths.
Total length completed,		36.57
Total length of road belonging to this company, Total length of road belonging to this company in Michigan,	36.57	36.57
Aggregate length of sidings, spurs and other tracks not above enumerated,  Same in Michigan,  Aggregate length of tracks belonging to this company, computed as single track,  Same in Michigan,	5.84	5.84

Gauge of track, 4 feet, 81 inches.

STATE OF OHIO, COUNTY OF CUYAHOGA, SS.

John Newell, President, and C. P. Leland, Secretary, of the Kalamazoo & White Pigeon Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JOHN NEWELL. C. P. LELAND.

Subscribed and sworn to before me this 24th day of April, A. D. 1890.

L. ROOD LOOMIS, Notary Public.

## ANNUAL REPORT.

#### OF THE

## NORTHERN CENTRAL MICHIGAN RAILROAD COMPANY,

For the Year Ending December 31, 1889.

#### [Filed April 29, 1890.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN NEWELL, Cleveland, Ohio.
Secretary, Treasurer and Transfer Agent, C. P. LELAND, Cleveland, Ohio.

#### DIRECTORS.

W. K. VANDERBILT, New York City.

W. H. Brockway, Albion, Mich.

JOHN NEWELL, Cleveland, Ohio.

C. T. MITCHELL, Hillsdale, Mich.

S. N. IRWIN, Lansing, Mich.

W. H. CANNIFF, Cleveland, Ohio.

P. P. WRIGHT, Cleveland, Ohio.

A. E. BILLINGS, Hillsdale, Mich.

R. A. MONTGOMERY, Lansing, Mich.

Terms expire when successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

Number of stockholders at date of last election. One, L. S. & M. S. R'y. Co. Fiscal year of company ends,—December 31.

General offices of the company are located at Cleveland, Ohio.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association,
No. of shares issued,
All owned by L. S. & M. S. R'y Co.

Total amount paid in, as per books of the company,
Paid in per mile of road owned by com
\$610,000 00

pany,—miles, 61.14, \$9,977 12

## ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

First mortgage bonds, 8%, due 1908	3. All owned by L. S. & M. S. R'y Co.
UNFUNI	DED DEBT.

·	OMEON	DED	DED L.				
Unfunded debt,	-	-	-	- •	-	<b>N</b> o	ne.
	RECAP	ITULA	TION.				
Total funded debt,	-	-	-	-	-	<b>\$1,525,000</b>	00
Total debt liabilities,	-	-	-	-	1_	<b>\$1,525,000</b>	00
Amount of debt liabilities pe	r mile o	f road	l,—61	.14 m	iles,	24,942	<b>75</b>
Total amount of stock	and del	bt,	-	-	-	\$2,135,000	00
Stock and debt per mile of	road,	-	-	-	-	34,919	79.
INTEREST	ON THE	FUNI	DED I	EBT.			
What is the amount of same Was it paid for the last year			ar?	-	-	<b>\$122,000</b>	00
COST O	F ROAI	) ANI	EQU	IPMI	ENT.		
Total Cost for Construction and	Equipn	nent of	Road	and I	Branches	Built by Compo	ıny.

Total expended for construction,		<b>31,357,000 00</b>
Average cost per mile of road, not including siding 61.14 miles,	ngs,	22,195 00
Proportion of cost of construction for Michigan,		1,357,000 00

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January 13, 1873.

## MAIN LINE.

	Miles. 100ths.	Miles. 100ths.
Length completed in Michigan,	61.14	
Total length completed,		61.14
Total length of road belonging to this company,	<b>61.14</b>	
Total length of road belonging to this company		
in Michigan,		61.14
Aggregate length of sidings, spurs and other		
tracks not above enumerated,	8.00	•
Same in Michigan,		8.00
Aggregate length of tracks belonging to this		
company, computed as single track,	<b>69.14</b>	
Same in Michigan,		<b>69.14</b>

Gauge of track, 4 feet, 8½ inches.

STATE OF OHIO, COUNTY OF CUYAHOGA, 88.

John Newell, President, and C. P. Leland, Secretary, of the Northern Central Michigan Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JOHN NEWELL. C. P. LELAND.

Subscribed and sworn to before me this 24th day of April, A. D. 1890. L. Rood Loomis, Notary Public.

## ANNUAL REPORT

#### OF THE

## FLINT & PERE MARQUETTE RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed May 8, 1890.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, W. W. CRAPO, New Bedford, Mass.

Vice President and General Manager, H. C. POTTER, East Saginaw, Mich.

Secretary and Treasurer, H. C. POTTER, JR., East Saginaw, Mich.

Auditor, GILBERT W. LEDLIE, East Saginaw, Mich.

Asst. General Manager, DAVID EDWARDS, East Saginaw, Mich.

Superintendent, S. KEELER, East Saginaw, Mich.

Asst. Superintendent, W. F. POTTER, East Saginaw, Mich.

Division Superintendeut, S. T. CRAPO, Port Huron, Mich.

Chief Engineer, WM. B. SEARS, East Saginaw, Midh.

Superintendent of Telegraph, C. S. CHENEY, East Saginaw, Mich.

General Freight Agent, A. PATRIARCHE, East Saginaw, Mich.

Attorney, W. L. WEBBER, East Saginaw, Mich.

#### DIRECTORS.

W. W. Crapo, New Bedford, Mass.
Lowm Snow, New Bedford, Mass.
George Coppell, New York City, N. Y.
J. Lewis Stackpole, Boston, Mass.
Francis V. Parker, Boston, Mass.
John W. Mackintosh, Boston, Mass.
Lewis Pierce, Portland, Maine.
H. C. Potter, East Saginaw, Mich.
Wm. L. Webber, East Saginaw, Mich.
H. C. Potter, Jr., East Saginaw, Mich.
Wm. H. Tousey, Bay City, Mich.

Terms expire third Wednesday in May.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Au	igus	t 31,	1880.				
Number of stockholders at date of last election,	-	-	-	-	-	-	1,634
Number of stockholders in Michigan at same date,		-	-	-	-	-	12

**\$142,700 00** 

Amount of full paid stock held in Michigan at same date,

Date of annual meeting of stockholders,—Third Wednesday in May.

Fiscal year of company ends,—December 31.

General offices of the company are located at East Saginaw, Mich.

#### REMARKS.

This company now owns and operates a system consisting of roads heretofore reported separately as the Flint & Pere Marquette, Saginaw & Clare County, Saginaw & Mount Pleasant, and Manistee Railroads, but all consolidated with the F. & P. M. Company, January 30, 1889. Included also in the system is the property of the Port Huron & Northwestern Railroad Co., acquired during the year, under the provisions of Act No. 10, Session Laws of 1889, this report including its business since April 1, of the year under report, and all other details as to conditions of property or at close of same period.

COMMISSIONER OF RAILROADS.

#### GENERAL EXHIBIT.

		DE	BIT.	CREDIT.
Total income, Total expenses, including taxes,	-	<b>\$1</b> ,552,164	33	<b>\$</b> 2,332,279 60
Net income,		-		780,115 2 <b>7</b>
	44,962 23 12,147 83	2	05	
Rentals of buildings, tracks, etc., Surplus of P. H. & N. W. division of	peration	- <b>\$4</b> 57,110 - s	UĐ	<b>\$</b> 95,299 01
carried to construction account,		37,889	80	200 414 49
Balance applicable to dividends, Dividends declared, 6%,	-	380,520	00	380,414 43
Balance for the year,	_	<b>\$105</b>	57	
Balance (profit and loss) last year, Balance forward to next year,		446	92	<b>\$</b> 552 <b>4</b> 9
		\$552	49	<b>\$</b> 552 <b>4</b> 9
ANALYSIS OF	CAPITAL	STOCK.		
Amount authorized by charter or are	ticles of a	association,	-	<b>\$10,000,000</b> 00
Par value of shares, No. of shares issued.	\$100 00 96,402			
Amount paid in on common, Amount on preferred,		<b>\$</b> 3,298,200 6,342,000		
Amount shares not issued,—number, Common,	1,580 } 2,018 }	359,800		
Total amount as per books of th	e compai	n <b>y,</b>		10,000,000 00

194,235 65

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest,	When Due,	Where Payable,	Amount Outstanding.	
Holly, Wayne & Monroe, January 1, 1870	8% 6% 5% 5% 5%	January 1, 1901 October 1, 1920 May 1, 1939 April 1, 1989 \$40,000 annually	New York New York New York New York Boston	\$1,000,000 00 3,999,000 00 1,000,000 00 2,800,000 00 820,000 00	
Total funded debt				\$9,119,000 00	

## UNFUNDED DEBT.

For What Incurred.	Is the Same to b	e Funded	or How Liquid	lated.	Amount	•
For real estate						
For current balances					\$741,8	32 57
Total unfunded debt					\$741,8	82 57
	RECAPITUI	LATION.				
Total funded debt, Total unfunded debt,	 	-		-	\$9,119,000 741,882	
Total debt liabilities,	,	-		-	\$9,860,882	57
Amount of debt liabilities, Total amount of stock and Stock and debt per mile of	d debt,	-			15,778 19,860,882 31,780	<b>57</b>
GEN	ERAL BALAN	CE SHI	EET.—Dr.		•	
Construction and equip Other investments:	ment account	, . \$	19,918,086	82		
F. & P. M. steamers, for Dining room and launce		-	336,404 6,206	<b>74</b>	<b>\$20,260,69</b> 8	30
Cash items: Cash, Due from agents,		-	\$123,575 70,659	94	<b>\$20,200,03</b> 0	บฮ
	- <del>-</del>		,		104 005	25

Other assets:  Materials and supplies, Debit balances from companies	bna	-	<b>\$163,52</b> 8	51		
individuals,	dila		83,801	63		
F. & P. M. preferred stock unso	ld	-	158,000			
F. & P. M. common stock unsole	d,	-	201,800	00		
I. W I. III. COMMON SWOON WINDOW	<b></b> ,	-			<b>\$</b> 607,130	14
Total,	-	-			<b>\$21,062,064</b>	18
GENERAL BA	LANC	Е ЯН	EETCr.			
Capital stock,		9	\$10,000,000	00		
Funded debt,	-	- '	9,119,000		-	
randea debti,	-	-	3,113,000		<b>\$19,119,000</b>	00
Unfunded debt:					<b>410,110,000</b>	00
Interest unpaid, coupons not du	A		\$106,034	99		
Dividends unpaid, payable Feb.	15	-	190,260	00		
Notes payable,		-	190,260 124,000	00		
Vouchers and accounts,	-	-	321,587	58		
vouchors and accounts,	-	-		_	741,882	57
Profit and loss or income accounts	, -	-			1,201,181	61
Total,	-	_			\$21,062,064	18
. COST OF ROAL	D AND	EQU	JIPMENT.			
. COST OF ROAL  Total Cost for Construction and Equipm		_		es B	uilt by Compa	ny.
Total Cost for Construction and Equip	nent of	Road	, and Branch		uilt by Compa \$19,918,086	•
Total expended for construction and Average cost per mile of road, not in	nent of	Road	, and Branch		<b>\$</b> 19,918,086	82
Total Cost for Construction and Equipment Total expended for construction and Average cost per mile of road, not in miles,	nent of	Road	, and Branch		<b>\$</b> 19,918,086 31,871	82 91
Total expended for construction and Average cost per mile of road, not in	nent of	Road	, and Branch		<b>\$</b> 19,918,086	82 91
Total Cost for Construction and Equipment Total expended for construction and Average cost per mile of road, not in miles,	nent of ad equ acludi 	Road ipme ng si	, and Branch ont, lings,—624	.9 <b>4</b> - -	\$19,918,086 31,871 19,918,086	82 91
Total expended for construction and Equipment Total expended for construction and Average cost per mile of road, not in miles,  Proportion of cost for Michigan,	nent of nd equ ncludi - - D PRO	Road	, and Branch ont, lings,—624 - - -	.9 <b>4</b> - -	\$19,918,086 31,871 19,918,086	82 91
Total expended for construction and Equipmed Average cost per mile of road, not in miles,  Proportion of cost for Michigan,  CHARGES AND CREDITS TO MAIN LINE	nent of nd equ ncludi D PRO	Road ipme ng sid	and Branch ont, - dings,—624   TY DURING THE8.	.94 - - TH	\$19,918,086 31,871 19,918,086	82 91
Total expended for construction and Equipmed Average cost per mile of road, not in miles,  Proportion of cost for Michigan,  CHARGES AND CREDITS TO MAIN LINE  Extensions, new sidings and widen	nent of nd equ ncludi  PRO:	Road ipme ng sid	and Branch ont, - dings,—624 - - - TY DURING CHES.	.94 - - TH	\$19,918,086 31,871 19,918,086	82 91
Total expended for construction and Equipmed Total expended for construction and Average cost per mile of road, not in miles,  Proportion of cost for Michigan,  CHARGES AND CREDITS TO MAIN LINE  Extensions, new sidings and widen New buildings, tanks, etc.,	nent of nd equ ncludi  PRO:	Road ipme ng sid	, and Branch ont, dings,—624 TY DURING THES. \$3,848,445 40,340	.94 - - TH 27 15	\$19,918,086 31,871 19,918,086	82 91
Total expended for construction and Equipmed Total expended for construction and Average cost per mile of road, not in miles,  Proportion of cost for Michigan,  CHARGES AND CREDITS TO MAIN LINE  Extensions, new sidings and widen New buildings, tanks, etc.,	nent of nd equ ncludi  PRO:	Road ipme ng sid	, and Branch ont, - dings,—624 - TY DURING THES. \$3,848,445 40,340 19,604	.94 - - TH 27 15 06	\$19,918,086 31,871 19,918,086	82 91
Total expended for construction and Equipmed Total expended for construction and Average cost per mile of road, not in miles,  Proportion of cost for Michigan,  CHARGES AND CREDITS TO MAIN LINE  Extensions, new sidings and widen New buildings, tanks, etc.,  New fences,  Machinery and tools,	nent of nd equincludi	PERT	, and Branch ont,	.94 - TH 27 15 06 62	\$19,918,086 31,871 19,918,086	82 91
Total expended for construction and Equipmed Total expended for construction and Average cost per mile of road, not in miles,  Proportion of cost for Michigan,  CHARGES AND CREDITS TO MAIN LINE  Extensions, new sidings and widen New buildings, tanks, etc.,  New fences,	nent of nd equ ncludi  PRO:	PERT	, and Branch ont, - dings,—624 - TY DURING THES. \$3,848,445 40,340 19,604	.94 - TH 27 15 06 62 09	\$19,918,086 31,871 19,918,086	82 91
Total expended for construction and Average cost per mile of road, not is miles,  Proportion of cost for Michigan,  CHARGES AND CREDITS TO MAIN LINE  Extensions, new sidings and widen New buildings, tanks, etc.,  New fences,  Machinery and tools,  New locomotives,  New cars and snow plows,	nent of nd equ ncludi - D PRO AND I	PERT	and Branch ont, lings,—624  Y DURING OHES. \$3,848,445 40,340 19,604 808 57,467 72,858	.94 - TH 27 15 06 62 09	\$19,918,086 31,871 19,918,086 E YEAR.	82 91 82
Total expended for construction and Equipmed Total expended for construction and Average cost per mile of road, not in miles,  Proportion of cost for Michigan,  CHARGES AND CREDITS TO MAIN LINE  Extensions, new sidings and widen New buildings, tanks, etc.,  New fences,  Machinery and tools,	nent of nd equ ncludi - D PRO AND I	PERT	and Branch ont, lings,—624  Y DURING OHES. \$3,848,445 40,340 19,604 808 57,467 72,858	.94 - TH 27 15 06 62 09	\$19,918,086 31,871 19,918,086	82 91 82 44

## ANALYSIS OF EARNINGS.

## PASSENGER EARNINGS.

Main line and branche						••		
Local fares,	-	-	-	-	<b>\$743,610</b>	63		
Inrough lares,	-	-	-	-	32,208	-07		
Total passenger fares,	_	-	_	_	<b>\$775</b> ,818	69		
Express and baggage,		_	_	_	37,613	<b>57</b>		
Mails,	-	-	-	-	48,610			
Mails, Other sources,	-		-	-	20,994	66		
Total passenger de		ment	earn	ings,		-	<b>\$</b> 883,037	5 <b>5</b>
Proportion for Michiga	an,	-	-	_	_ \$883,0			
Per train mile, Per mile of road,	-	-	-	-		. 7		
Per mile of road,	-	-	<i>,</i> -	-	_ 1,4	<b>13</b> 0	0	
			<i></i>					
		FREI	GHT 1	CABNIN	38.			
Main line and branche	s:							
Local traffic,	-	-	_	-	<b>\$1,297,500</b>	86		
Through traffic,	-	-	-	-	151,741	19		
Total traffic,	-	-	-	-	<b>\$1,44</b> 9,242	05		
Total freight depa	rtme	nt ea	rning	8,		-	<b>\$1,44</b> 9, <b>24</b> 2	05
Proportion for Michig	an,	_	_	_	\$1,449,242	05		
Per train mile, Per mile of road,	-	_	_	-	1	32	•	
Per mile of road,	-	-	· _	-	2,319	01		
Total transportation	on ea	rning	gs,	-		-	<b>\$2,332,27</b> 9	<b>60</b>
Transportation earning	rs pe	r mil	e of re	oad,	<b>\$</b> 3,732	01		
Transportation earning	gs pe	r trai	n mil	θ, ΄.	1	87		
Total earnings fro	m op	perati	on of	road,		-	2,332,279	60
Total earnings per mile	e of	road.			<b>\$</b> 3,732	00		
Total earnings per trai	n mi	ile, _	_	. [		87		
Proportion of taxable e	arni	ngs fo	o <b>r M</b> ic	higan,			<b>\$</b> 2,332,279	60
Total taxable earnings	$\mathbf{per}$	$\mathbf{mile}$	of r	oad in	2 222 5=2	••		
Michigan,	- 4		-	-	2,332,279	60	05 000	Λ1
Net earnings steamer	oute	, etc.	, -	-		-	95,299	OT.
Total income from	all	sourc	es,	-		-	<b>\$2,427,578</b>	61
Proportion of income	for I	Michi	gan,	-		-	<b>2,427,57</b> 8	61

## ANALYSIS OF EXPENSES.

## CLASS 1.-Maintenance of Way and Buildings.

CLA	ss 1.— <i>M</i>	aintena	nce of	Way !	and B	uilding	в.		
Repairs of road way	and tr	ack						<b>\$</b> 156,234	97
TD - 1 - 1 - 1 - 1		-	-	-	-	-	-	31,663	
Repairs of bridges, i	inaludi:	- 		an Ī aa	4430 0	-	-	26,348	07
Density of forest re	includi	ng curv	erus e	ina ca	nne 8	uarus,	-	23,329	04
Repairs of fences, ro	oau cro	samgs,	anu s	argus,	-	-	-	23,659	24±
Density of buildings	s,	i :	-	-	-	-	-		
Repairs of buildings Repairs of shop tool	s and r	nacnine	ery,	-	-	-	-	5,315	70
Repairs of docks,	-	-	-	-	-	-	-	536	
Repairs of docks, Boarding cars,	-	-	-	-	-	-	-	424	78
Total,	_					-	_	<b>\$267</b> ,511	41
·								• • • • • • • • • • • • • • • • • • • •	
CLASS	3 2.—Ma	intenanc	e of 1	nouve	Power	ana Co	<i>1</i> 78.		
Repairs of locomotiv	768	_	_	_	_	_	_	<b>\$92,565</b>	67
Repairs of passenger	r cars.	_	_	_	_		_	50,717	
Repairs of passenger Repairs of freight ca	9.TS.	_	-	_	_	-	_	55,619	21
	, -								
Total,	-	-	-	-	-	-	-	<b>\$</b> 198,902	<b>75</b>
	CLASS 3	.—Cond	ucting	Tran	<b>s</b> porta	tion.			
Fuel for locomotives								<b>\$172,182</b>	36
Water supply	, -	-	-	-	-	-	-	11,381	
Oil and weate	-	-	-	-	-	-	-	29,533	
Water supply, Oil and waste, Locomotive service, Passenger train serv Passenger train service, Freight train service, Freight train suppli Mileage of freight c Telegraph expenses Damage and loss of	-		-	-	-	-	-	25,555 174,049	
December very test		-	-	-	•-	-	-	67,639	00
Passenger train serv	100, .	-	-	-	-	-	-		
Passenger train sup	pnes,	-	-	-	-	-	-	7,622	
Freight train service	θ, _	-	-	-	-	-	-	148,702	
Freight train suppli	.08, _	-	-	-	-	-	-	3,653	
Mileage of freight c	ars,	-		·-		-	-	3,161	60
Telegraph expenses	(main	tenance	and	opera	ting),	-	-	26,180	
Damage and loss of Damages to propert Personal injuries,	freight	t and be	aggag	ze,	-	-	-	1,368	<b>75</b>
Damages to propert	y and c	attle,	_	-	-	_	-	2,983	
Personal injuries,	_	-	-	_		-	-	5,251	50
Personal injuries, Agents and station a	service,	-	_	_	• -	-	-	210,295	71
Station supplies,		-	_	_	-	-	_	12,982	31
Total,	-	-	-	-	•	-	-	<b>\$876,987</b>	01
	Cr	ASS 4.—	Gener	al Exp	enses.				
Salaries of the gene	ral offic	ere of	the c	omnai	n W			<b>\$32,208</b>	50
Salaries of the gene Salaries of clerks in Law expenses,	CONATO	ol office	<u>ш</u> сс	ompai	ц,	-	-	37,711	
Lew expenses	Вополо	ar omco	., <sub>-</sub>	-	-	-	-	13,066	
Insurance credit	-	-	-		-	-	-	3,250	
Law expenses, Insurance, credit, Stationery and prin Outside agencies an	ting -	-	-	-	-	-	-	15,339	
Outside agencies on	പ്പു,	ticinc	-	-	-	-	-	15,554	40 90
Continuonaise	u auvei	manng,	-	-	-	-	-		
Contingencies, Taxes,	-	-	-	-	-	-	-	19,609	11
Taxes,	-	-	-	-	-	-	-	54,894	
Track rental,	_	_	-	-	-	-	-	21,190	67
Engineering,	-	-	-	-	-	-	-	2,439	44
Total,	_	_	_	_	_	_	_	\$208,762	50
	_	-	-	-	-	-	_		

## RECAPITULATION OF EXPENSES.

RECAPITU.	LATION	OF EXP	ENSES.					
			Per Cent	of				
			Expense	<b>18.</b>				
Maintenance of way and buildi	ngs, _	-	_ 17.					
Maintenance of motive power a		-	_ 12.					
Conducting transportation, General expenses, including ta	-	-	_ 56.					
General expenses, including ta	xes, _	-	_ 13.	45 208,762 50				
Total operating expenses a	ind taxes	, -	-	\$1,552,164 33				
Operating expenses and taxes Operating expenses and taxes p	er train 1	nile rur	1,	01				
for trains earning revenue,— Proportion of operating expens	-1,249,13 ses and $$ t	8 miles axes fo	s, 1 or	24				
Michigan:								
Main line,		-	1,552,164	33				
Total proportion of expen	ses for M	lichigar	1,	<b>\$</b> 1,552,164 33				
Percentage of expenses to earn	ings,66	3.55%.						
Net earnings per mile of road,	-	-	1,248					
Net earnings per train mile,	· <b>`</b> -	-	-	63				
DESC	RIPTION	OF ROA	AD.					
From Monroe to Ludington, From City of Saginaw, Belt From Manistee Branch, Mani From Port Huron to East S From Port Huron to Sand I From Palms Junction to Po From Port Huron to Almon	Line, Ju istee Jun aginaw, I Beach, Se rt Austin	ne 16, 1 ction to Februar ptembe , Decer	.889. Manisted y 21, 1882 r 13, 1880. nber 11, 1					
•	MAIN LI	NE.						
In Michigan, from Monroe t	o Luding	ton, -		les. 100ths. Miles. 100ths. 53.34				
Total length completed,	-		-	253.34				
BRANCHES.								
Flint River Branch,		_	19.51					
East Saginaw to Bay City,		-	12.68					
,								
St. Clair Branch,		, -	4.65					
St. Clair Branch, City of Saginaw Belt Line,	 		5.19					
St. Clair Branch, City of Saginaw Belt Line, Zilwaukee Spur,	 	· -	5.19 2.51					
St. Clair Branch, City of Saginaw Belt Line, Zilwaukee Spur, West Shore Branch,		- - -	5.19 2.51 1.68					
St. Clair Branch, City of Saginaw Belt Line, Zilwaukee Spur, West Shore Branch, Coleman Branch,		- - -	5.19 2.51 1.68 11.02					
St. Clair Branch, City of Saginaw Belt Line, Zilwaukee Spur, West Shore Branch, Coleman Branch, Mt. Pleasant Branch,		-	5.19 2.51 1.68 11.02 14.51					
St. Clair Branch, City of Saginaw Belt Line, Zilwaukee Spur, West Shore Branch, Coleman Branch,	ilroad,	-	5.19 2.51 1.68 11.02					

,	Miles, 100ths, Miles, 100ths,
Port Huron Division, 90.34	2200, 10020, 2200, 10020,
Sand Beach Division, 70.25	
Almont Division, 33.75	
Port Austin Division, 34.50	
Black River Division, 12.13	
Total length of branches owned by company,	371.60
Total length of branches owned by company in	071 00
Michigan,	371.60
Total length of road belonging to this company, Total length of road belonging to this company	624.94
in Michigan,	624.94
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,	269.59
Aggregate length of tracks in Michigan belonging to this company, computed as single track,	_ 894.53
Gauge of track, 474.31 miles, 4 feet 8½ inches. Gauge of track, 150.63 miles, 3 feet.	
, ,	Total Miles. In Michigan.
m 4 1 11 4 3 1 41	624.94 624.94
Total miles operated by the company,	024.54 024.54
Number of Bridges and Trestles in Michigan	
	gan. 1, feet, 1,979.50 1, feet, 1,907 1, feet, 939
Number of Bridges and Trestles in Michie Wooden bridges, number of 22; aggregate length Iron bridges, number of 5; aggregate length Combination bridges, number of 9; aggregate length	gan. 1, feet, 1,979.50 1, feet, 1,907 1, feet, 939
Wooden bridges, number of 22; aggregate length 16; aggregate length Combination bridges, number of 9; aggregate length Wooden trestles, number of 128; aggregate length	gan.  1, feet, 1,979.50 1, feet, 1,907 1, feet, 939 1, feet, 17,530
Wooden bridges, number of 22; aggregate length 16; aggregate length Combination bridges, number of 9; aggregate length Wooden trestles, number of 128; aggregate length Total, 175;	gan.  1, feet, 1,979.50 1, feet, 1,907 1, feet, 939 1, feet, 17,530
Number of Bridges and Trestles in Michigary  Wooden bridges, number of 22; aggregate length 16; aggregate length Combination bridges, number of 9; aggregate length Wooden trestles, number of 128; aggregate length 128; aggregate length 175;  Draw Bridges in Michigan.	gan.  1, feet, 1,979.50 1, feet, 939 1, feet, 17,530 22,355.50  4  68 feet. 42.50 feet. ood, 189 feet.
Number of Bridges and Trestles in Michigary  Wooden bridges, number of 22; aggregate length 16; aggregate length 16; aggregate length 16; aggregate length 128; aggregate length 128; aggregate length 175;  Draw Bridges in Michigan.  How many on your line?  Where located, when built, and length of draw span: One East Saginaw, built 1876, Howe truss, wood, 16 One South Saginaw, built 1889, iron Howe truss, wood Character of structure:	gan.  1, feet, 1,979.50 1, feet, 939 1, feet, 17,530 22,355.50  4  68 feet. 42.50 feet. ood, 189 feet.
Number of Bridges and Trestles in Michigary  Wooden bridges, number of 22; aggregate length 16; aggregate length 16; aggregate length 18; aggregate length 18; aggregate length 18; aggregate length 18; aggregate length 18; aggregate length 18; aggregate length 18; aggregate length 18; aggregate length 18; aggregate length 18; aggregate length 18; and 19; an	gan.  1, feet, 1,979.50 1, feet, 939 1, feet, 17,530 22,355.50  4  68 feet. 42.50 feet. ood, 189 feet.
Number of Bridges and Trestles in Michigary  Wooden bridges, number of 16; aggregate length 16; aggregate length 16; aggregate length 18; aggregate length 1	gan.  1, feet, 1,979.50 1, feet, 939 1, feet, 17,530 22,355.50  4  68 feet. 42.50 feet. ood, 189 feet. 1,40 feet.
Number of Bridges and Trestles in Michigary  Wooden bridges, number of 22; aggregate length 16; aggregate length Combination bridges, number of 9; aggregate length Wooden trestles, number of 128; aggregate length 128; aggregate length 175;  Draw Bridges in Michigan.  How many on your line?  Where located, when built, and length of draw span: One East Saginaw, built 1876, Howe truss, wood, 10 One East Saginaw, built 1889, iron Howe truss, wood, 10 One South Saginaw, built 1881, iron Howe truss, wood Character of structure:  Two spans Howe truss, two spans iron truss.  Material of which constructed:  Iron.	gan.  1, feet, 1,979.50 1, feet, 939 1, feet, 17,530 22,355.50  4  68 feet. 42.50 feet. ood, 189 feet. 1,40 feet.

Approaches, straight or curved:
Two straight and two curved.
Do you require all trains to come to a full stop before crossing a draw, and how are they signalled?

All trains stop unless signalled by hand.

Crossings—Railroad and Highway.
What railroads cross your road at grade in this State, and at what locality?  Lake Shore & Michigan Southern Railroad at Carlton.  Wabash, St. Louis & Pacific Railroad at Romulus.  Michigan Central Railroad Main Line at Wayne.  Michigan Central Railroad, Bay City Division, at Otter Lake, Vassar, Saginaw City Junction, Saginaw City, J., L. & S. Crossing and Bay City.  Michigan Central Railroad, Belt Line, at Bay City.  Detroit, Lansing & Northern Railroad at Plymouth.  Grand Trunk, Air Line, at Wixom.  Detroit, Grand Haven & Milwaukee Railway at Holly.  Chicago & Grand Trunk Railway at Flint.  Cincinnati, Saginaw & Mackinaw Railroad at South Saginaw.  Toledo, Ann Arbor & North Michigan Railroad at Clare.  Grand Rapids & Indiana Railroad at Reed City.  Lake County Railroad at Branch.  Dansher's Logging Railroad at Manistee Junction.  Manistee & Luther Railroad at Eastlake.  Chicago & West Michigan Railway at Baldwin.  Manistee & Northeastern Railroad at Manistee.  Grand Trunk Railway at Port Huron and Grand Trunk Junction.  Pontiac, Oxford and Northern Railroad at Clifford.  At what crossings are interlocking and derailing switches in operation?  Michigan Central, Wayne; 2 places in Saginaw.  Cincinnati, Saginaw & Mackinaw; 3 places East Saginaw.  Chicago & West Michigan Railway; Baldwin.  Manistee & North Eastern, Manistee.  Junction of Bay City Branch & Main line East Saginaw.  What pattern or patterns have you adopted?  Use the Allentown, Union Switch and Signal Company's and Gravitt.  Number of crossings of highways at grade in this State,  719  Number of crossings of highways at grade in this State at which there are gates or flagmen,  Number of crossings of highways over or under railroad,
Over,—3, under,—8, 11
Number of highway bridges 18 feet above track,
Number of highway bridges less than 18 feet above track, Have safety guards been erected at over-head obstructions.  Yes.
Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act
174, session laws of 1883, Yes.
How are they treated? Hart guard and blocks.
Stations.
Number of stations on whole line, 140
Same in Michigan, 140

## Employés.

				1	Employ	yé <b>s</b> .				
Number pers by compan Same in Mic	ons y, in	regula cludi	arly e	mploy ficials,	red o	n all i	roads -	opera	ted -	2,263
Same in Mic	higa	n,	-	-	-	-	-	-	-	2,263
Classify your	em]	plo <b>yé</b> s	as p	er foll	lowing	g list:				Number.
Baggageme	en a	nd br	akem	en.	_	_	_	_	_	243
Conductor	8,	_	_	-	_	_	_	_	_	82
Engineers,		_	-	_	-	_	-	-	-	99
Conductor Engineers, Firemen,	_		-	-	-	-	_	-	_	105
Laborers,		-		-	-	-	-	-	-	. 703
опоршен,		_	-	-	-	-	-	-	٠ -	313
Yardmen,		-	-	-	-	-	-	-	-	115
Others,	-	-	-	-	-	-	-	-	-	603
			RE	PAIR8	<b>AND</b>	RENEV	VALS.			
			2	Fencin	g in 1	<b>Hichigo</b>	ın.			
How many m	iles	of fen	cing	have ;	you?	_	-	-	-	624.94
Give the nun sides of yo needed:	aber ur tı	of mil ack, i	les re n Mi	equire chigai	d to n, and	comp the c	lete f ountie	ence s in v	both which	
Midland,	-	-	-	-	-	_		_	_	9.00
Clare,	-	-	-	-		- •	-	-	-	27.00
Isabella,	-	-	_	~	-	-	-	-	-	7.00
Mason,	-	-	-	-		-	-	-	-	20.00
Lake, Manistee,	-	-	-	-	-	-	-	-	-	9.00 7.00
Manistee,	-	-	-	-	-	-	-	-	-	.50
Osceola, St. Clair,	-	-	-	-	-	-	-	-	-	4.00
Lapeer,	-	-	-	-	-	<u>-</u> -	-	-	-	3.00
Sanilac,	-	-	-	-	-	-	-	-	-	6.00
Huron,	_	-	-	-	-	-	_	-	_	20.00
,							_		_	
Total mi	iles	requir	ed,	-	-	-	-	-	-	112.50
				Road .	Bed an	d Trac	c <b>k</b> .			
Number of to	rack	sectio	ns in	Mich	igan,	_	_	-	-	118
Average leng	gth o	f sect	ions,-	-mile	s, -	-	-	-	-	11.25
Average nun								-	-	4
Number of n	ew t	ies pu	ıt in '	whole	line d	luring	the y	ear,	-	560,776
Number of n	ıew t	ies pu	it in 1	track :	in Mi	chigan	1, -	-	-	560,776
Average nun	ber	of ne	w ties	e per 1	nile o	f road	l, -	-	-	897
New rails pu	t in	track	:		100.00					
Steel (tons Total miles of	s, 13 of tra	,430.19 ick lai	d wit	les,—	rails	5. , -	-	-	-	130.32
				Bridg	es and	Culver	rts.			

## Bridges and Culverts.

Amount of trestle	work 1	eplac	ed wi	th ear	th dr	iring	the y	ear,	
—linear feet,		-	-	-		-	-	-	None.
New bridges built	during	the :	year,-	–num	ber,	_	-	_	12

Location.	Kind,	Material,	Month Built,	Feet in Length.	
Sount Pleasant branch	. Girder	Iron	December		
Count Pleasant branch	_ Girder	Iron	December	1	
fount Pleasant branch	Girder	Iron	December		
lare	.' Girder	Iron	December		
Reed City	. Girder	Iron	December		
outh Saginaw	Through truss sw'g	Iron	June	1	
louth Saginaw	. Through comb't'n,	Wood and Iron	June	3	
louth Saginaw	Girder	Iron			
outh Saginaw	Pile Trestle	Wood	June	5	
wo miles west of Mayville	. Pile Trestle	Wood			
ne-half mile west of Mayville	. Pile Trestle	Wood			
dast of Avoca	Iron girder & truss.	Iron		6	

## ROLLING STOCK.

•	Number.	Present Estimated Value.
Number of locomotives of more than 30 tons		
weight, exclusive of tender,	89	<b>\$618,169</b> 15
Number of locomotives of 20 to 30 tons weight,		•,
exclusive of tender,	14	54,500 00
Total,	103	<b>\$</b> 672,669 15
Number of passenger cars—12-wheel, including	_	HAA AA
official cars,	2	<b>500 00</b>
Number of passenge, cars—8-wheel, including		
official cars,	94	10 <b>4,40</b> 0 <b>0</b> 0
Number of express and baggage cars,	22	15,600 00
Number of box freight cars,	1,593	222,150 00
Number of stock cars,	<b>29</b>	4.150 00
Number of platform cars,	1,120	105,625 00
Number of coal cars,	210	30,500 00
Number of conductors' way cars,	39	11,300 00
Other cars,	254	40,750 00
Outof outby		
Total,	3,363	<b>\$</b> 1,207,644 15
Number of locomotives equipped with power		
brakes,	42	
Number of passenger-train cars equipped with		
power brakes,	117	
Number of freight cars equipped with power		
brakes.	None.	
What patterns of power brakes have you in use, as	nd numb	per of locomo-
tives and cars with each? Westinghouse auto	matic a	ir brake.
Are your freight cars being equipped with automat		
by Act No. 147, Session Laws of 1885? Yes.		
What pattern or patterns have you adopted for use	? TheM	C B Standard
How are your passenger cars heated? With the Pe	ter Smith	hot water and
Condon heaters and Baker and Spear heaters.	WI WIIII	I TO WOOL OHO
Condon nearers and Daker and Speat nearers.		

74

83

**\$**0 90.800

00.607 01.201 01.089

## MILEAGE, TRAFFIC, ETC.

## Train Mileage.

	•		
Miles run by passenger trains during the		-	148,184
Miles run by freight trains during the ye	ar, _	-	78 <b>4</b> ,8 <b>67</b>
Miles run by mixed trains,		-	316,087
Total mileage of trains earning reven	iue, .	-	1,249,138
Passenger Tr	affic.		
-	Numbers		Rate.
	and Quantities.	Miles.	Dollars. Cents.
Number of through passengers carried,	16,714		
Number of local passengers carried,	1,145,165		
Total number of passengers carried,	1,161,879		•
Average distance traveled by each passen Average amount received from each passe Average rate of fare per mile for through Average rate of fare per mile for local passen Average rate of fare per mile for all passen	enger, n passengers, assengers,	- - -	26 \$0 66.000 02.370 02.497 02.492
Freight Tra	ffic.		
Number of tons of through freight carried, Number of tons of local freight carried,	Numbers and Quantities. 133,968	Miles.	Rate. Dollars. Cents.
Total tons of freight carried,	1,596,888		
Total mileage of through freight,	2	4,986,37	3
Total mileage of local freight,	10	8,062,50	5
Total freight mileage, or tons carried	d one mile, $\frac{-1}{13}$	3,048,87	8
Average ton haul for through freight,		18	7
A	- <b>-</b>		4

#### Freight Forwarded at Michigan Stations.

Average rate per ton per mile, received for through freight, Average rate per ton per mile, received for local freight, Average rate per ton per mile, received for all freight,

Average ton haul for local freight,

Average ton haul for all freight,
Average amount received for each ton haul,

2.009.00	_ 0			g w	~~~~			
								Tons.
Grain,	_	_	_	_	_	_		<b>59,769</b>
Flour,	-	_	-	_	-	-	_	<b>75,442</b>
Provisions (beef, pork, lar	d, etc	;. ) <b>,</b>		_	_	_	_	57,463
Animals, L	_	-	_	_	_	_	_	12,271
Lumber and forest produc	ts.		-	_	-	_	_	1,048,564
Coal,	-	_	_	_	_	_	_	16,024
Plaster, lime and cement,	_	_	_		_	_	_	13,542
,								•

1000.j	FIMILIA C. J.	DIGIS D	arrive	OBIT.	Ly IVA		AL		001
Salt, Stone, brick ar Manufactures,- Merchandise a	—articles shi	- ipped icles r	from not en	point	of p	roduc above	tio	- - <b>n,</b> -	Tons. 64,296 13,739 28,161 144,839
Total forw	arded, _	-	-	-	-	-	-	<b></b>	1,534,110
	Tonnage of	Articl	es Tra	nsport	ed.—1	Entire	Ro	ad.	
				•				Tons	. Per Cent.
Grain,		_	_	_		_	_	62,88	9 3.94
Flour,		_		_		_	_	76,16	
Provisions (be	ef, pork, lar	d. etc.	).			_	_	61,16	
Animals,			,, -	_		_	_	12,85	0 .80
Lumber and fo	rest produc	ts.	_	_		_	_	1,048,80	2 65.68
Coal,		, -	_	_		_	_	34,16	3 2.14
Plaster, lime a	nd cement.	_	_	_	•	_	_	15,23	
Salt,		_	_	_		_	_	64,34	
Stone, brick ar	nd sand.		_	_		_	_	14,08	
Manufactures,		ipped	from	point	of p	rodu	C-	,	
tion,			_	-	_	_	_	35,73	6 2.24
Merchandise a	nd other art	icles r	ot er	umer	ated	abov	θ,	171,46	
Total tons	carried,		_	-		_	-	1,596,88	8 100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. Pays \$30,975.00 per annum for a tonnage equal to 10,000 pounds average hauled 262 miles daily. General express

business; handle their own freight at depot.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 371 miles, Western Union Telegraph Company.

218 miles, Flint & Pere Marquette Railroad Company.

## TRANSPORTATION COMPANIES.

## Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Company, Chicago Illinois, \$1,110 30 Mileage 3 cents per mile.

## Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

National Dispatch Line,—N. C. Co., St. Albans, Vt.,	<b>\$1,05</b> 8	72
National Dispatch Line,—C. B. L., St. Albans, Vt.,	51	
Flint & Pere Marquette railroad —G. E. L. Detroit Mich.		33
Flint & Pere Marquette railroad,—G. E. L., Detroit, Mich., Flint & Pere Marquette railroad,—C. E. L., Detroit, Mich.,	134	
West Michigan, Equipment Co., Grand Rapids, Mich.,	38	
Silas Kilbourne & Co. Grand Rapids, Mich.,		27
Merchants' Despatch Transportation Co. New York, N. Y.,	5,627	
	463	
Standard Oil Co. New York, N. Y.,		
Swift Refrigerator,—C. Express Line, Chicago, Ill.,	174	
Tiffney Refrigerator,—C. Express Line, La Fayette, Ind.,	56	
Armor Palace,—Horse Cars, Chicago, Ill.,	16	
American Refrigerator Transportation Co., St. Louis, Mo.,	33	
Union Iron Co., Detroit, Mich.,	306	
Peerless Tank Line, Cleveland, O.,	107	
Armour Refrigerator Line, Chicago, Ill.,		30
Columbus & Hocking Coal & Iron Co., Columbus, O.,	119	
E. C. Walker, Detroit, Mich.,	11	53
Michigan Salt Line, Saginaw, Mich.,	23	09
Street's Stable Car Line, Chicago, Ill.,	8	52
Ohio & Western Coal & Iron Co., Columbus, O.,	. 1	82
S. Cupples, Wooden Ware Co., Grand Rapids, Mich.,		24
Eagle Consolidated Refining Co., Cleveland, O.,	21	
Frazer Lubricating Co., Chicago, Ill.,	91	
Standard Oil Co., barrel racks, Cleveland, O.,		$1\overline{2}$
St. Charles, Car Co., St. Louis, Mo.,	_	<del>5</del> <del>5</del>
G. H. H., Freight Car Line, Louisville, Ky.,	5	94
W. P. Rend & Co., Chicago, Ill.,	16	
W. P. Rend & Co., Chicago, Ill., Nelson Morris & Co., Chicago, Ill., Anglo American Provision Co., Chicago, Ill.,		68
Anglo American Provision Co., Chicago, Ill.,		03
		04
Marsh & Harwood Co., Cleveland, O.,		85
Lima Oil Co., Lima, O.,	_	
Gem Oil Line, Toledo, O.,	43	
Kansas City Dressed Beef Line, Kansas City, Mo.,	17	
St. Louis Refrigerator Car Co., St. Louis, Mo.,		48
Chicago Car & Coal Co., Chicago, Ill.,		17
Canada Cattle Car Co., Chicago, Ill.,		79
Southern Iron Car Lines, Atlanta, Ga.,		<b>76</b>
Iron Car Express & Coal Line, Philadelphia, Pa.,	110	
J. G. Brill & Co., Philadelphia, Pa.,	3	84
American Tank Line, Cleveland, O.,	<b>2</b>	04
Paragon Refining Co., Toledo, O.,		96
Somers Coal Co., Columbus, O.,	12	01
Total,	<b>\$</b> 8,652	01

## REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

January 1, Matthew Haley, brakeman, East Saginaw. Knocked off car by lumber projecting from pile over track; company not responsible.

January 30, John Keep, car repairer, East Saginaw. Was on top of car while passing to another, cars separated and he fell; company not responsible. February 11, James Tubbs, hotel keeper, Loomis. In attempting to

cross track in face of approaching engine; company not responsible.

February 28, David John, Indian, Fountain. Intoxicated on track. June 5, John Riley, tramp, Midland. Stealing a ride.

June 15, Mrs. Harriett Lowell, Mt. Morris. Attempting to cross track

in face of approaching train.

June 21, W. H. Arnolds, brakeman, Midland. Logs rolled from car.

July 20, M. P. Linsley, brakeman, Saginaw Junction. Crushed between way-car and tender; company not responsible.

August 3, Henry White, farmer, Birch Run. Intoxicated on track;

company not responsible.

August 3, Otto Schmidt, East Saginaw. Walked on track in face of approaching engine; company not responsible.

August 19, Philip Marsh, switchman, East Saginaw. Coupling; project-

ing lumber, cars not loaded per orders.

September 1, Hy. H. Parmenter, Northville. Stealing ride and jumped from train; company not responsible.

September 10, Thomas Barrow, boy, C. & G. T. Junction. Attempting to board construction train while in motion; company not responsible.

October 12, Patrick Clancey, Flint. Intoxicated; company not respon-

sible.

December 28, Miss Ann Gunn, Clio. Laid down upon track and run over; company not responsible.

#### INJURED.

January 7, E. E. Wilkins, brakeman, Lake. Coupling; carelessness. January 14, C. W. Rowe, brakeman, Lake. Fell from train; lack of caution.

January 26, George G. King, switchman, East Saginaw. Coupling; carelessness.

January 28, Jno. Gateman, log unloader, Meridian Line. Unloading logs; lack of caution.

January 30, Wm. Harmod, engineer, Flint. Jumped from engine; lack of caution.

February 2, Albert Conley, Switchman, East Saginaw. Coupling; care-

February 6, J. J. Lamb, brakeman, Midland. Flat car lifted from track on to platform of caboose when train backed to couple; accidental.

February 7, Joe Kawacka, East Lake. Trespasser on track; struck by

February 15, D. C. Hoabler, switchman, Bay City. Coupling; acciden-

February 21, Wm. Bissell, brakeman, East Saginaw. Coupling; carelessness.

February 28, F. H. Robison, switchman, East Saginaw. Coupling; care-

March 3, Albert Wellmand, brakeman, Flint. Went to sleep on car and fell off.

March 16, J. H. Grimshaw, conductor, Wayne Junction. Coupling; carelessness.

March 11, Harvey Shrink, foreman, Ludington. Collision; accidental upon his part.

April 2, Charlie Louie, Indian, Reed City. Intoxicated on track.

May 4, N. A. June, brakeman, South Saginaw. Coupling; carelessness.

May 8, Jno. McKune, brakeman, Clare. Coupling; carelessness.

May 10, Alexander French, trespasser, Bay City. Asleep under car. May 13. Jno. Monihan, brakeman, Farwell. Coupling; carelessness.

May 24, Matthew McAllen, brakeman, Flint. Coupling; lack of cau-

May 29, Burt Sine, brakeman, Milford. Coupling; carelessness. June 3, Samuel Welsh, switchman, East Saginaw. Fell from car.

June 15, James Pickering, section man, Farwell. Fell from hand car;

lack of caution. June 59, Samuel McEwen, Bay City. Attempting to cross track in face of approaching train.

July 20, A. O. McDonald, switchman, East Saginaw. Coupling; care-

August 12, Charles Petoskey, laborer, Vassar. Rail fell upon leg; lack of caution.

August 20, James Rattis, section man, Hatton. Jumping from hand car; lack of caution.

September 6, George Perkins, brakeman, Wayne Junction. Coupling; carelessness.

September 6, James McLemon, Yale. Coupling; carelessness.

September 9, Wm. McClain, brakeman, East Saginaw. Coupling; care-

September 28, Walter Coats, section man, Novi. On hand car and struck by freight train.

October 1, Matt McCallum, brakeman, Bay City. Coupling; carelessness. October 8, Walter Shattuck, brakeman, Wayne Junction. Coupling;

October 13, George Ellmore, conductor, East Saginaw. Coupling; care-

November 5, Jno. Clark, brakeman, Wayne Junction. Coupling; care-

November 12, Frank Twiss, Jr., brakeman Evart. Coupling; carelessness. November 22, Jno. F. Leary, switchman, East Saginaw. Getting on locomotive foot board; carelessness.

December 10, George Eckfield, brakeman, Harrison Branch. Coupling; carelessness.

December 9, Samuel Havis, of vinegar works, Holly. Fell from car; lack of caution.

December 23, Barney Langtree, conductor, Clare. Fell from car of logs; accidental.

December 30, W. J. Naldrett, passenger, Northville. Jumped from train; misconduct.

## TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Cause of Accident,		Killed,		Injured,			
	Passengers.	Employés.	Others.	Passengers.	Employés,	Others.	
Collisions					2		
oupling cars.		1			22		
Derailments Falling from trains Frogs					5		
rogs. etting on and off trains lighway crossings.							
fiscellaneous		2			6		
respassers on trainsrespassers on tracks			3				
respassers on wacks			•				
Total.		5	10		85		

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	15
Number of persons injured during the year,	41
Number of casualties purely accidental,	7
Number resulting from lack of caution, carelessness, or	
misconduct.	35
Persons killed or injured while intoxicated,	4
Trespassers and tramps killed or injured,	10
Suicides.	_

## CLASSIFICATION OF EMPLOYES.

## KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen Brakemen	<u>\$</u>	19	22
Conductors Engineers		2 1	2 1
Firemen Laborers Switchmen		1 2	1 2 8
Car Repairer Not classified above	i	8	1 8
Total	5	85 '	40

STATE OF MICHIGAN, SS. COUNTY OF SAGINAW,

Henry C. Potter, Vice President and General Manager, and Gilbert W. Ledlie, Auditor, of the Flint & Pere Marquette Railroad Company being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

HENRY C. POTTER. GILBERT W. LEDLIE.

Subscribed and sworn to before me this 7th day of May, A. D. 1890.

ALFRED W. NEWTON, Notary Public.

## ANNUAL REPORT

#### OF THE

## FRANKFORT & SOUTHEASTERN RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed May 14, 1890.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, HENRY DAY, New York City, N. Y. Secretary D. B. BUTLER, Frankfort, Mich. Treasurer, S. M. McCALL, Boston, Mass. Superintendent, ARTHUR WARD, Frankfort, Mich. Auditor, D. M. WEGNER, Frankfort, Mich.

#### DIRECTORS.

HENRY DAY, New York, N. Y. S. W. McCall, Boston, Mass. A. C. Hall, New York, N. Y. D. B. Butler, Frankfort, Mich. C. C. Case, Benzonia, Mich.

Terms expire June 4, 1890.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—December 2, 1885.			
Number of stockholders at date of last election,	-	-	7
Number of stockholders in Michigan at same date,	-	-	3
Amount of full paid stock held in Michigan at same date,	-	-	\$800 00
Date of annual meeting of stockholders,—First Wednesday of June.			
Fiscal year of company ends,—December 31.			
General offices of the company are located at,—Frankfort, Mich.			

## REMARKS.

This road was not opened for traffic until December, 1889.

COMMISSIONER OF RAILBOADS.

## ANALYSIS OF CAPITAL STOCK.

Average price received per share, 10	les of association, _ 00 00 00 00 571	\$100,000 00
Amount paid in on common,	<b>\$</b> 57,100 00	
Total amount paid in as per books of t Paid in per mile of road owned by comp —22 miles.	57,100 00	

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

	FU.	NDED	DEBT.						
Class, Character, and Date of Issue,		w	hen Due.		Interest,			Amount,	
					Payable,				
First mortgage dated July 1, 1899		Ја	Jan. & July		New York City.			\$282,00	00 00
Total funded debt								\$222,00	00 00
	UNF	UNDED	DEBT.						
Funded debt,		-	-	-	-	-	-	No	ne.
	RECA	<b>PITUI</b>	ATION.						
Total funded debt,		-	-	-	-	-	\$22	0,000	00
Total debt liabilities	3, _	-	_	-	_	-	\$22	0,000	00
Amount of debt liabilities	s per mi	le of r	oad,—2	2 mile	8,	-	1	0,000	00
Total amount of stoo	ck and de	ebt,	_	_	_	_	\$27	7,100	00
Stock and debt per mile	of road,	_	-	_	-	_	1	2,595	<b>46</b>
INT	EREST OF	THE	FUNDE	DEB'	г.				
What is the amount of s Was it paid for the last			year,	-	-	-	<b>\$</b> 13	3,200	00
cos	OF ROA	AD AN	D EQU	IPMEN	T.				
Total Cost for Construction a	ınd Equip	ment o	f Road.	and Br	anch	es Bui	lt by C	ompa	ny.

Total expended for construction,	<b>\$266,805</b> 6	6
Average cost of construction per mile of road, not including	10.10E F	
sidings,—22 miles,	12,127 5	
Proportion of cost of construction for Michigan,	<b>266,805</b> 6	iU

#### DESCRIPTION OF ROAD.

Date when road was opened for use between its present termini: November 25, 1889.

#### MAIN LINE.

Length completed in Michigan,	Miles. 100ths. 22.00	Miles. 100ths.
Total length completed,		22.00
Total length of road belonging to this company, Total length of road belonging to this company in	22.00	
Michigan, Aggregate length of sidings, spurs, and other		22.00
tracks not above enumerated,  Same in Michigan,	2.00	2.00
Aggregate length of tracks belonging to this company, computed as single track,	24.00	2.00
Same in Michigan, Gauge of track, 4 feet, 8½ inches.	22.00	24.00

STATE OF MICHIGAN, COUNTY OF BENZIE, Ss.

Henry Day, President, D. B. Butler, Secretary, of the Frankfort & South Eastern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, HENRY DAY. D. B. BUTLER.

Subscribed and sworn to before me this 6th day of May, A. D. 1890, as to D. B. Butler, Secretary.

CHAS. BURMEISTER, Notary Public.

Subscribed and sworn to this 12th day of May 1890, as to Henry Day, President.

LUCIEN H. BEERS.

Commissioner for Michigan in New York.

#### ANNUAL REPORT

#### OF THE

#### GRAND RAPIDS & INDIANA RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed May 14, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and General Manager, W. O. HUGHART, Grand Rapids, Mich. Vice President, and Treasurer, W. R. SHELBY, Grand Rapids, Mich. Secretary and Ass't to President, J. H. P. HUGHART, Grand Rapids, Mich. Auditor, F. A. GORHAM, Grand Rapids, Mich. Division Superintendents:

\*J. M. METHEANY, Northern Division, Grand Rapids, Mich.
P. S. O'ROURKE, Southern Division, Fort Wayne, Ind.
Chief Engineer, G. S. JOHNSON, Grand Rapids, Mich.
General Passenger Agent, C. L. LOCKWOOD, Grand Rapids, Mich.
Acting General Freight Agent, E. C. LEAVENWORTH, Grand Rapids, Mich.
General Counsel, T. J. O'BRIEN, Grand Rapids, Mich.

#### DIRECTORS.

W. O. HUGHART, Grand Rapids, Mich.

W. R. SHELBY, Grand Rapids, Mich.

H. J. HOLLISTER, Grand Rapids, Mich.

F. B. STOCKBRIDGE, Kalamazoo, Mich.

S. S. Cobb, Kalamazoo, Mich.

J. G. WATT, Sturgis, Mich.

C. F. MUHLER, Fort Wayne, Indiana.

WM. THAW, JR., Pittsburg, Pennsylvania.

J. N. McCullough, Pittsburg, Pennsylvania.

THOS. D. MESSLER, Pittsburg, Pennsylvania.

GEO. B. ROBERTS, Philadelphia, Pennsylvania.

JOHN P. GREEN, Philadelphia, Pennsylvania.

HENRY H. HOUSTON, Philadelphia, Pennsylvania.

Terms expire March 6, 1891.

<sup>\*</sup> Deceased.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—April 1, 1855.		·
Number of stockholders at date of last election,	-	675
Number of stockholders in Michigan at same date,	-	273
Amount of full paid stock held in Michigan at same date,—Cannot answer.		
Date of annual meeting of stockholders,—First Wednesday in March.		
Fiscal year of company ends,—December 31.		
General offices of the company are located at Grand Rapids, Mich.		•

#### GENERAL EXHIBIT.

	DESIT.	CRE	DIT.
Total income,		<b>\$</b> 2, <b>4</b> 95,732	90
Total expenses, including taxes,	<b>\$</b> 1,670,353 62		
Net income,	,	<b>\$</b> 825,379	<b>28</b>
Interest on funded debt, Interest on unfunded debt, Rentals of buildings, tracks, etc.,	\$765,925 00 71,052 67 6,000 00		
iventials of buildings, tracks, ew.,		842,977	67
Balance for the year,	<b>\$17,598 39</b>	<del></del>	
Balance (profit and loss) last year,	175,800 43		
Items not included in above, as follows:			
Advances to C.R. & F.W.R.R. for 1889, Proportion of deficit of Mackinac Trans-	2,295 11		
portation Co. for 1889,	873 08		
Discounts on bonds sold, Sundry old accounts paid during 1889,	<b>4</b> ,217 38 3,395 05		
Balance forward to next year,		<b>\$</b> 20 <b>4</b> ,179	44
	\$204,179 44	\$204,179	44
ANALYSIS OF CAPITA	L STOCK.		
Amount authorized by charter or articles of Par value of shares, \$100 00		\$5,000,000	00
No. of shares issued, - 49,860 Amount paid in on common, - Total amount paid in, as per books of the co	<b>\$4</b> ,986,081 22	4,986,081	22
Paid in per mile of road owned by company,  —408.49 miles,  48	<b>\$</b> 12, <b>206</b> 13		

#### · ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issus.	Rate of Interest.	When Due.	Where Payable.	Amount.
First mortgage, October 1, 1869 F. M. land grant, October 1, 1869 F. M. land grant, guarantsed, October 1, 1869 Six per cents, August 1, 1884 Five per cents, September 1, 1884	74 74 74 64 64	1899. 1899. 1899. 1899.	New York New York New York New York New York	\$986,000 505,000 8,984,000 8,000,000 4,104,000
Total funded debt				\$12,479,000

#### UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
For Construction	To be paid	\$275,000 00
For Real Estate		191,750 00
For Miscellaneous For Current Balances	Pay rolls, vouchers and coupons due January 1, 1890_	420,000 00 483,158 09
Total unfunded debt		· \$1,869,908 09

#### BECAPITULATION.

Total funded debt, _ Total unfunded debt, _	-	-	-	-	-	-	\$12,479,000 1,369,903	
Total debt liabilities,	-	-	-	-	-	-	<b>\$13</b> ,848,903	09
Amount of debt liabilities p	er m	ile of	road,	<b>40</b> 8	.49 m	iles,	33,902	67
Total amount of stock and Stock and debt per mile of	debt, road	40	8.49 n	niles,	-	-	\$18,834,984 46,108	31 80

GE	NER	AL BA	LAN	CE SH	EET.—Dr.			
Construction and equ Other investments:	ıipm	ent ac	count	;, <u> </u>			<b>\$16,986,267</b>	29
Capital stock M., G.	R. &	I. rai	ilroad.		<b>\$</b> 930	00		
Capital stock G. R.,	[. &	M. rai	ilroad	• -	1,350			
Purchase B. R. & W.	rail	road,	-	, - -	100,000			
Stock and investment			tel Co	D., _	44,500	00		
Stock and investment	t M.	T. Co	٠.,	· _	117,000	00		
			•				263,780	00
Cash items:								
Cash,	_	<u>-</u> ·	-	_	<b>\$294</b> ,839			
Bills receivable,	_	-	-	_	26,642			
Due from agents,	_	-	_	-	71,839	98		
•							393,321	98

Other assets: Materials and s	mnnlie	a				<b>\$</b> 113,49	6 28		
Debit balance	from	con	pani	.es 8	ınd	•			
individuals,	-	-	_	-	-	183,66			
6% bonds, 5% bonds,	_	_	_	_	_	300,00	0 00		
5% bonds,	_	_	-	_	_	405,00	00 0		
,								<b>\$1,202,164</b>	69
Balance,	-	-	-	-	-			189,450	35 —
Total,	-	-	-	-	-		-	<b>\$</b> 18,83 <b>4</b> ,98 <b>4</b>	31
	GEN	VERA	L BA	LANC	E SH	EETCr.		•	
0 41 4 1						<b>84.000.00</b>	1 00		
Capital stock,	-	-	-	-	-	<b>\$4,986,08</b>	7 7Z		
Funded debt,	-	-	-	-	-	12,479,00	U UU	017 40F 001	00
Unfunded debt:								<b>\$17,465,081</b>	22
Interest unpai	d, incl	uding	<b>; \$1</b> 3	7,690	0.00				
due January	1, 1890	),	-	-	_	<b>\$144,4</b> 3	0 00		
Notes payable,	_	-	-	-	_	420,00	0 00		
due January Notes payable, Vouchers and a	ccount	8,	-	-	-	254,77	3 14		
Other liabilities:									
Bond and mort		n real	esta	t⊎,	-	41,75	0 00		
Mackinaw loan	اوا			<b></b> .	-	275,00	0 00		
The Philadelph	iia trus	it, safe	e <u>dep</u>	osit a	and				
insurance co	mpany,	, and	Wil	liam	Н.	- 20 00			
Barnes, trust Lake City exter	ees,		-	-	-	150,00			
Lake City exter	asion fu	and,	-	-	-	17,40			
Due other comp	oanies,		-	-	-	66,54	9 01		00
								1,369,903	
Total,	-	-	-	-	-			<b>\$</b> 18,834,984	31
	COST	r of :	ROAI	AN.	D EQ	UIPMENT.			
Total Cost for Cons	truction	and F	(()	ment c	of Roa	d and Bran	ches l	Built by Comp	ını.
			Z						•
Total expended for Average cost per	or cons	tructi	on ar	nd eq	uipme	ent, . iding sid	in <i>o</i> s	<b>\$</b> 16,986,267	29
400 40 miles								41 509	07
Proportion of cos	t for M	richio	ารท	-	-		-	14,778,052	54
1 Toportion of cos	0 101 11		,,	-	-		-	22,110,002	-
	F	Purcha	sed by	y Pres	ent Co	ompany.			
When received fr	om ee	natura	tion	aam -	שימופר	Dec 1 1	873		
Original cost to p	ADDUM TOTT COL	Tening	ONW ^	oum)	d end	l equipmen	nt.	\$10,848,250	00
Stock issued in 1	1686II(	comb	of o	ivino T TON	u au Ianh	e oquipmo	1109	1,000	
								5,625,774	
Amount expended Amount expended								511,243	
Total cost to	date of	f repo	rt,	-	-		-	<b>\$16,986,267</b>	29

MATCHAN	ART TO	TTDOAD	RETTIRNS
MIII:HII+	AN K.A	LILIKIJAJI	RHTTTIKNS

Dec. 31,

**\$160,587 23** 

			OHIGA	11 IW		OAD IM	TURNS.		[Dec. ]
Average cos 408.49 mil	t per es,	mil -		oad,		includii -	ng siding	<b>3</b>	<b>\$41,583</b>
Proportion o	f cost	for	Michig	gan,	-	_		-	14,778,052
CHIAD	CITEC A	NTT (	(DEINI	nne m	∩ DD	ODEDIN	DURING	mer	T VEAD
CHAIV	опено д	MD (	CIMEDI	10 1	O FR	OFERT	DUMING	III	E IEAN.
				M	AIN I	INE.			
Extensions a	nd ne	w sic	lings,	_	_	_	<b>\$41,908</b>	04	
Second track	ζ,	-	_	_	-	_	2,410	12	•
New buildin	gs,	_	_	_	_	_	17,334	24	
New fences,		_	_	_	_	-	1,910	<b>76</b>	
New buildin New fences, Machinery a	nd to	ols,	-	_	_	_	729	97	
wear estate,	-	-	•	_	-	_	11,830		
New cars,	-	-	-	-	-	-	82,929	81	
Total,	-	_	-	-	-	-	***************************************		<b>\$</b> 159,053
		L	EASED	OR 1	PROPE	RIETARY	ROADS.		
Muskegon	, Grai	nd R	apids	& In	diana	railroa	d:		
	ınd ne	w si	dings.	_	_	_	<b>\$</b> 541	<b>54</b>	
extensions a			0,				2,570		
extensions a Bridges,	-	-							
Extensions a Bridges, New fences.	<u>-</u>	-	-	_	-	_	250	00	
Extensions a Bridges, New fences, Real estate,	-	-	-	-	- -	- -			
Extensions a Bridges, New fences, Real estate, New locomo	tives,	- - -	- - -	- - -	- - -	- - -	250	00	
Extensions a Bridges, New fences, Real estate, New locomo	tives,	-	- - -	-	-	-	250 601	00	<b>\$</b> 10,899
Extensions a Bridges, New fences, Real estate, New locomo Total,	-	-	-	-	-	-	250 601 7,000	00	\$10,899 \$169,953

Net addition to property account,

# ANALYSIS OF EARNINGS.

## PASSENGER EARNINGS.

Bosds.	Local Fares.	Through Fares.	Throngh Passenger Fares.	Express and Baggage.	Mails.	Other Sources.	Total.	Proportion for Michigan.	Proportion Per Per Mile Michigan, Train Mile. of Road.	Per Mile of Road.
Main line and branches	\$715,820 99	<b>\$3,578</b> 21	\$3,578 21 \$718,894 30 \$26,887 23	\$26,887 23	\$42,516 44	\$21,765 48	\$42,516 44 \$21,705 48 \$810,008 35 \$704,690 42	\$704,690 42	\$108	\$1,982 92
Leased or Proprietary Roads.										
Muskegon, Grand Rapids & Indiana Railroad.	20,134 75	32,876 69	58,001 44	2,520 00	8,029 50	658 96	29,204 90	29,204 90	2	1,606 65
Traverse City Railroad	7,874 80	14,661 77	22,556 57	1,800 00	1,927 94	92 627	25,738 T7	26,723 77	7.5	1,027 84
Total passenger department earnings		\$51,181 67	\$748,530 54 \$551,181 67 \$794,452 21 \$11,147 23 \$447,478 88 \$22,858 70 \$886,982 02 \$790,619 09	\$11,147 28	\$47,478 88	\$22,858 70	\$896,962 02	\$790,619 09	\$1 00	\$1,900 82

## FREIGHT EABNINGS.

Roeda.	Local Traffic.	Through Traffic.	Total Traffic.	Other Sources.	Total.	Proportion Per Per Mile. o	Per Train Mile.	Per Mile of Road.
Main line and branches	\$1,891,180 71		80 760 760 771 771 771 771 771 771 771 771 771 77	\$38,432 87	\$1,458,257 56	\$1,268,684 08	£1 £7	\$3,569 87
Muskegon, Grand Rapids & Indiana Bailroad Traverse City Railroad	25,698 85	70,130 67	19,948 49	2,257 88	98,082 85	98,082 35	198	2,061 06 767 25
Total freight department earnings	\$1,428,467 77	\$107,129 98	\$1,428,467.77 \$107,129 98 \$1,585,567.70 \$40,690.70 \$1,576,288 40 \$1,886,782 42	\$40,690 70	\$1,576,288 40	\$1,386,792 42	\$1 52	\$3,844 27

Total transportation earnings,	<b>\$</b> 2,472,220	<b>42</b>
Transportation earnings per mile of road, Transportation earnings per train mile,  \$5,245 09 1 28		
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From telegraph,	•	
Total,	<b>\$</b> 23,512	<b>4</b> 8
Distribution of miscellaneous earnings between main line proprietary roads:	and leased	or
COMPANY. Grand Rapids & Indiana, Muskegon, Grand Rapids & Indiana, Traverse City,  Total Miscellaneous. \$22,905 38  \$256 32  \$50 78	tion for Michia \$19,927 256 350	33 32
Total earnings from operation of road,	<b>\$</b> 2, <b>4</b> 95,732	90
Total earnings per mile of road, \$5,297 97 Total earnings per train mile, 1 29 Proportion of taxable earnings for Michigan, Total taxable earnings per mile of road in Michigan, \$5,255 20	2,197,338	84
Total income from all sources,	<b>\$</b> 2,495,732	90
Proportion of income for Michigan,	2,197,881	<b>2</b> 8
ANALYSIS OF EXPENSES.		
Class 1.—Maintenance of Way and Buildings.		
Repairs of road way and track, Renewals of rails, Renewals of ties, Repairs of bridges, including culverts and cattle guards, Repairs of fences, road crossings and signs, Repairs of buildings,	\$209,945 36,328 70,036 32,152 32,680 59,361	21 85 26 23
Total,	9440 505	
	<b>\$44</b> 0,505	<b>1</b> 5
CLASS 2.—Maintenance of Motive Power and Cars.	<b>\$44</b> 0,505	<b>1</b> 5

•										
•	CLAS	ıs 3.—	Cond	ucting	Tran	sporta	tion.			
Fuel for locomo	timog								<b>\$170,873</b>	90
		-	-	-	-	-	-	-	10,081	
Water supply, Oil and waste,	-	-	-	-	-	-	-	-	14,360	
Locomotive serv			-	-	-	-	-	-	142,192	
				-	-	-	-	-	47,512	22
Passenger train Passenger train	supplies	<b>.</b>	-	-	-	-	-	-	9,973	
Mileage of passe	enger ca	rs.				_	-	-	1,031	
Freight train se	rvice.	,	_	_	-	-	_	_	77,941	
Freight train se Freight train su	pplies.	_	_	_	_	_	_	_	1,806	
Mileage of freig	ht cars.	_		_		_	_	_	5,835	
Telegraph exper	ises (ma	inten	ance	and c	perat	ing).	_	_	35,561	39
Damage and los	s of frei	ght a	nd b	82280	ю.		_	_	1,771	
Damages to pro	perty an	d cat	tle.	-	-	_	_	_	2,149	48
				_	_	_	_	4	3,021	42
Agents and state	ion servi	ce.	_	_	_	_		_	198,750	21
Station supplies	3	_		_	_	_	_	_	14,977	95
• • • • • • • • • • • • • • • • • • • •	•									
Total,	_	_	_	_	_	_	_	_	<b>\$</b> 737,839	29
•		<b>~</b>		~					- ,	
					ıl Exp					
Salaries of the g	general o	fficer	в o <b>f</b> t	he co	mpan	у,	_	_	<b>\$27,181</b>	
Salaries of clerk	s in gen	eral c	ffice	3,	-	_	_	_	48,772	09
Law expenses,					_	_	_	_	9,998	<b>43</b>
Insurance,	-	_	-	-	-	_	_	-	4,054	35
Stationery and 1	orinting				-	_	_	_	22,630	13
Outside agencie	s and ad	vertie	ing,	_	_	_	_	_	15,860	61
Contingencies,	-	_	_	-	_	-	_	_	21,374	
Taxes,	_		_	_	_	_	-	_	49,484	13
Total, _	-	-	-	-	-	-	-	-	<b>\$</b> 199,354	93
	70.70	C L TOTAL				********	<b>3</b> 0			
	KE	CAPIT	CALA	LION (	OF EX	PENSI				
							Per ce Expe	ent of mees.		
Maintenance of	way and	build	linos					.37	<b>\$44</b> 0,505	15
Maintenance of	motive r	ower	and	cars.	-	-		.52	292,654	
Conducting tran	sportatio	on.		· · · · · · · · · · · · · · · · · · ·	-	-		17	737,839	
Conducting tran General expense	s. includ	ling t	AXAR.	-	-	-		94	199,354	93
Crossos oupones	,		<b></b>	-	-	-				_
Total opera	ting exp	enses	$\mathbf{and}$	taxes	, -	-	100	.00	<b>\$</b> 1,670,353	<b>62</b>
Operating exper	hre see	taxes	nar	mile	of ro	e 5a	2 542	84		
Operating exper for trains ear	nses and	taxes	per t	train 1	nile r	un,	0,010	86		
	_							00		
Proportion of o Michigan: Main line,	beramig	expe	эцвев	and .	wala.UB	TOL			<b>\$</b> 1,326,273	83
	=	-	-	-	-	-	-		<b>4</b> 1,020,210	50
		Lease	d or I	Propri	etary :	Roads.				
Muskegon, Gran	id Rapid	ls & T	ndia	na R.	R	<b>\$</b> 10	6,394	83		
Traverse City R		-	-	-	-		9,506			
Total propo	rtion of	exper	ses f	for M	ichige	ın, _	-		\$1,472,174	77

Percentage of expenses to earnings,—66.928%.

Net earnings per mile of road,

Net earnings per train mile,

\$1,751 13

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Fort Wayne, Indiana, to Mackinaw City, Michigan, July 3, 1882.

#### BRANCHES.

From Milton Junction, Michigan, to Carey's, Michigan, 1882. From Deer Lake, Michigan, to Raignels, Michigan, 1883. From Missaukee Junction, Michigan, to Jennings, Michigan, 1882. From Kegomie, Michigan, to Harbor Springs, Michigan, February 1, 1882. From Osceola Junction, Michigan, to Olga, Michigan, 1885.

#### MAIN LINE.

In Michigan, from Crooked Creek to Mackinaw City, In Indiana, from Fort Wayne to Crooked Creek,	Miles. 100ths. 313.48 53.11	Miles. 100ths.
Total length completed,		366.59
Length of double track on main line,		1.77
BRANCHES.		
Manistee branch and spurs, from Milton Junction to Carey's and from Deer Lake to Raignels, Milwaukee branch, from Missaukee Junction to	21.47	
Jennings,	7.64	
Harbor Springs branch, from Kegomie to Harbor Springs, Osceola branch, from Osceola Junction to Olga, Total length of branches owned by company,	5.76 7.03	41.90
Total length of branches owned by company in Michigan, Total length of road belonging to this company,	41.90	408.49
Total length of road belonging to this company in Michigan, Aggregate length in Michigan of sidings, spurs, and	355.38	
other tracks not above enumerated,	95. <b>64</b>	
Aggregate length of tracks in Michigan belonging to this company computed as single track,		451.02
Gauge of track, 4 feet 9 inches.		

Propretary or Leased Roads Operated by this Company.

Name, description, and length of each,

	Total Miles.	In Michigan.
Cincinnati, Richmond & Fort Wayne Railroad, Muskegon, Grand Rapids & Indiana Railroad, Traverse City Railroad,	85.60 36.85 26.00	36.85 26.00
Total,	148.45	62.85
Total miles operated by the company,	556.94	418.23
Number of Bridges and Trestles in Mich	igan.	
Wooden bridges, number of, Stone bridges, number of, Iron truss, number of, Plate girders, number of, Combination bridges, number of, Wooden trestles, number of, 1; aggregate length aggregate l	gth, feet, gth, feet, gth, feet, gth, feet,	1,139.20 18.80 130.00 336.50 1,091.00 12,257.15
Total,		14,972.65

#### Crossings-Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Lake Shore and Michigan Southern Railway at Sturgis, Kalamazoo, Plainwell and Grand Rapids.

St. Louis, Sturgis & Battle Creek Railroad at Sturgis.

Michigan Central Railroad at Wasepi and Kalamazoo.

Chicago & Grand Trunk Railway at Vicksburg.

Cincinnati, Jackson & Mackinaw Railroad at Monteith.

Chicago & West Michigan Railway at Grand Rapids, Mill Creek, Fruitport Junction and Muskegon.

Detroit, Grand Haven & Milwaukee Railway at Grand Rapids.

Toledo, Saginaw & Muskegon Railroad at Cedar Springs.

Colfax & Big Rapids Railroad at Big Rapids.

Detroit, Lansing & Northern Railroad at Big Rapids and Grand Rapids.

Flint & Pere Marquette Railroad at Reed City.

Cadillac & North Eastern Railroad at Cadillac.
Toledo, Ann Arbor & North Michigan Railway at Cadillac.

What railroads cross your road either over or under your grade in this State, and where?

Over,—
Detroit, Grand Haven & Milwaukee Railway near Kinney.

At what crossings are interlocking and derailing switches in operation?

M. C. R. R. at Wasepi.

D. L. & N. and M. C. Railroads at Grand Rapids.

T. S. & M. R. R. at Cedar Springs. T. A. A. & N. M. R'y at Cadillac. Smith Lumber Co. at Kalkaska.

What pattern or patterns have you adopted?
Union Switch & Signal Co., Wharton and Allentown.

900			,							
386		MCI	CHIG	AN RA	LILRO	DAD I	RETUI	RNB.		[Dec. 31,
Number of o	rossi	ngs o	f high	hways	at gr	ade in	this	State,	tata	492
at which t	here	are g	ates d	r flagr	nen,	- -	_	_	-	29
Number of o		ings	at wh	nich th	ere	are el	lectric	or a	ato-	3
What patter	n or	patte:	rns in	use?	Pen	nsylv:	ania S	steel (	Company.	J
Number of of Over,—5.	crossi Unc	ings o	f hig	hways	over	or un	der ra	ilroac	1:	6
Number of h	iighw	ay br	idges	18 fee	t abo	ve tra	ck,	-	- 	• 5
Number of h Have safety	ighw guard	ay bi	ridges	s less ti	han	18 fee -head	et abo	ve tr	ack,	None Yes.
Are your fro	gs an	d gua	ırd ra	ils blo	$\mathbf{cked}$	88 Te	quire	d by	act	
174, sessio How are the	n law	78 188 atod?	33? Wa	oden k	alook	a				$\mathbf{Y}$ es.
TIOM OLD ING	J me	avou:	** (		Statio					
Number of s	tatio	ng on	whol							163
Same in Mic			- WIIO	- -	-	-	-	- -	- -	143
				• <i>E</i>	mplor	IÉR.				
Normalism of								.11		
Number of operated h	rieq ov co	sons mpan	regu v. inc	lariy ( luding	offic empr	ials.	on a	iii re	aas	2,193
Same in Mic	higa	n,		-					-	1,898
Classify y	our e	mplo	yés a	s per fe	ollow	ing li	st:			
										Number.
Baggagemen Brakemen, Conductors, Engineers, Firemen, Laborers,	l <b>,</b>	-	-	-	-	-	-	-	-	20
Conductors.	-	•	-	-	-	-	-	-	-	127 72
Engineers,	_	-	-	-	-	-	-	-	-	94
Firemen,	-	-	-	-	-	-	-	-	-	99
Laborers, Shopmen	-	-	-	-	-	-	-	-	-	520 319
Shopmen, Yardmen,	-	-	-	-	-	-	-	-	-	111
Others,	-	-	-	-	-	-	-	-	-	831
			DF	PAIRS .	AND	DENEN	71 <b>T</b> G			
			KE.	FAIDS .	AND .	rene 1	VALO.			
				Fencing	in 1	<b>Lichig</b>	ın.			
How many r	niles	of fe	ncing	have	you?	-	-	-	-	<b>33</b> 3.17
Give the nursides of which nee	your	of m	iles re k, in	equired Michi	l to igan,	compl and	lete fe the co	nce b untie	oth s in	
Osceola, La Charlevoix	ke, V			Missau	kee,	Gran	d Tr	avers	э,	,
Total miles			-	-	-	-	_	_	-	85.00
				Road E	Bed an	d Tra	ck.			
Number of t						-	_	-	-	99
Average leng	zth of	E sect	ions–	-miles,	_	-	-	-	-	4.22

1889.] GRAN	D RAPIDS &	INDIAN	A RAI	LROAD	<b>co</b> .	387
Average number of	men in each a	section g	ing,		-	4
Number of new ties				year,	_	233,750
Number of new ties					_	213,573
Average number of					_	495
New rails put in t						
Steel (1,807 tons),	20 miles.					
Total miles of track	laid with new	rails,	-		-	20
	Bridges and	Culverts	in <b>Mi</b> ch	igan.		
Amount of trestle	work replac	ed with	earth	during	year,	
—linear feet.			_		_	243
Amount of culverts	replaced w	ith eart	h duri	ng the	year,	i.
linear feet,			_		_	4
Timber culverts repl		the year,				15
With sewer pipe,—r		-			8	
With timber,—num	oer, _	·	-	-	<b>.</b> 7	
New bridges built d	aring the yea	r,—numl	œr		27	- 00-
New bridges built de At different points.	) Trestles; w	ood,—fe	et,		-	1,801
	( Plate girde	rs; iron,	feet,		-	144
Total,		. <u>-</u>	-		-	1,945
	DOT	TTO OTH	OUT			
	KOL	LING ST	JUK.			Present
				Numb	er. I	etimated Value.
Number of locomotiv		an 30 tor	ıs		4.0	<b>*</b> 200 000 00
weight, exclusive		20.	-		<b>46</b>	<b>\$</b> 230,000 00
Number of locomo		o ou toi	18		ω.	60 000 00
weight, exclusive	n tender,	-	-		20	60,000 00
Total,		-	-		66	<b>\$</b> 290,000 00
Number of passenge	r cars_12 w	heel incl	nding			
official cars,	1 Cars-12 W	neer, me	uding		14	42,000 00
Number of passeng	er cars—8 w	heel, incl	nding			12,000 00
official cars,	,01 0415 0 11.	2001, 1110.			48	120,000 00
Number of express a	nd baggage o	ears.			24	36,000 00
Number of box freig	ht cars.			1.3	3 <b>8</b> 7	416,100 00
Number of stock car		-	_	_,	50	15,000 00
Number of platform		_		1,5	204	301,000 00
Number of ore and o	coal cars,	-		- (	<b>354</b>	88,500 00
Number of conducto	rs' way cars,	-			<b>46</b>	11,500 00
Other cars as follo	ws:					
Snow plows, 5; too	l cars 7. d	errick ce	rs 2.			
pile driver, 1; insp	pection car, 1	, -			16	8,000 00
Total,		-	-	3,3	143	31,328,100 00
Number of locomoti	ves equipped	with nov	ver hre	kes		50
Number of passenger					-	86
Number of freight co	ars equipped	with now	er bra	kes.	,	4
What patterns of por	ver brakes ha	ve vou ir	use. A	nd num	ber of	_
and cars with each	1?	- <b>y</b>				

**\$**0 86,000 00.972

00.992

00.991

Westinghouse, cars 90, locomotives 45; American, locomotives 5. Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? Yes.

What pattern or patterns have you adopted for use? Janney.

How are your passenger cars heated? By steam from locomotive.

#### MILEAGE, TRAFFIC, ETC.

#### Train Mileage.

17 un mu	euge.		
Miles run by passenger trains during the Miles run by freight trains during the y	ne year,	• • ·	898,046 1,036,725
Total mileage of trains earning rev	enue,	· -	1,934,771
Passenger :	Traffic.		
Number of through passengers carried, Number of local passengers carried,	Numbers and Quantities. 53,483 1,021,400	Miles.	Rate. Dols. Cents.
Total number of passengers carried,	1,074,883		
Total passenger mileage, or passengers of mile,	carried one	32,874,483	
Average distance traveled by each passes Average amount received from each passes Average rate of fare per mile for through Average rate of fare per mile for all passes	ssenger, gh passengers, passengers,		73.000 02.535 02.409 02.417
Freight T	raffic.		
Number of tons of through freight carried Number of tons of local freight carried	Numbers and Quantities.	Miles. Dol	Rate. llars. Cents
Total tons of freight carried,	1,786,574		
Total mileage of through freight, Total mileage of local freight,	 	11,017,243 144,004,497	
Total freight mileage, or tons carried or Average ton haul for through freight, Average ton haul for local freight, Average ton haul for all freight,	ne mile,	155,021,740 - 70.76 - 88.30 - 86.77	

Average amount received for each ton haul, Average rate per ton per mile, received for through freight,

Average rate per ton per mile, received for local freight,

Average rate per ton per mile, received for all freight,

36,709

87,485

52,555

Stone, brick and sand,

Freight 1	Porwai	rded a	t Mich	igan S	Station	8.		
								Tons.
Grain,	_	-		-	_	_	-	14,052
Flour,	_	_	_	-	_	-	-	12,931
Provisions (beef, pork, lard	l, etc.	),		_	_	_	_	10,127
Animals,	_	_	_	_		_	_	2,919
Other agricultural product	s.	_	_	_	_	_	_	48,862
Lumber and forest product	s.	_	_	_	_	_	_	886,189
Coal,	-,	_	_	_	_	-	-	40,045
Plaster, lime and cement,	_	-	-	_	_	_	-	15,175
Salt,	•	-	-	٠.	-	-	-	5,719
Petroleum,	-	-	-	-	-		•	3,391
Railroad iron, iron and stee	I rail	- a	•	-	-	-	-	8,651
Pig and bloom iron,	/ LWII	,	-	-	-	-	-	25,872
Other iron and castings,	-	-	-	-	-	-	-	5,439
	_	-	-	-	-	-	-	
Ores,	-	_	-	-	_	_	-	38,680

Total fo	rwarded,		-	-	-		-	-	1,294,801
----------	----------	--	---	---	---	--	---	---	-----------

Tonnage of	'Articles	Transported.—Entire Road.
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Manufactures,—articles shipped from point of production,

Merchandise and other articles not enumerated above,

I dividage of 11	111111111111111111111111111111111111111	I I WING	portou	. 13700	W C .	touu.	
						Tons.	Per Cent.
Grain,	-	-	-	_	_	43,023	2.4
Flour,	_	_	_	-	_	13,662	.8
Provisions (beef, pork, lard,	etc.).		_	_	_	10,966	.6
Animals,	,,					10,050	.6
Other agricultural products,	-	-	-	-	-	64,979	3.6
Lumber and forest products,	,	-	-	-	-	915,342	51.2
Coal.		-	-	-	-	88,448	4.9
	-	-	-	-	-		
Plaster, lime and cement,	-	-	-	-	-	16,857	.9
Salt,	-	-	-	-	_	5,823	.3
Petroleum,	_	_	_	-	_	13,753	.8
Railroad iron, iron and steel	rails	_	_		_	10,694	.6
Pig and bloom iron,	_	_	-		_	42,501	2.4
Other iron and castings,	_	_	_	_	_	38,629	2.2
Ores,	_				_	38,732	2.2
Stone, brick and sand,	_	_	-	-	-	240,914	13.5
Manufactures,—articles ship	ned f	rom 1	noint	of pr	~	,	
	pou r	rom j	роши	or br	<b>~</b>	107 759	70
duction,			-	<b>-</b> .	-	<b>127,753</b>	7.2
Merchandise and other as	rticles	not	enui	merate	ect		
above,	-	-	-	-	-	10 <b>4,44</b> 8	<b>5.8</b>
Total tone somiod						1,786,574	100.00
Total tons carried,	-	-	-	-	-	1,100,014	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Adams Express Company; 40% of gross earnings a minimum of \$36,000 per year guaranteed, all freight received and delivered at depots. The above covers all lines operated by this company.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Telegraph wire, 1,023.4 miles; telephone wire, 40 miles; all belonging to this company.

#### Transportation Companies.

#### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Co., Chicago, Ill., **\$**7.541 82 Wagner Sleeping Car Co., New York, N. Y., 2,041 74

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

August 12, Abel C. Durfee, trespasser, near Muskegon. Walking on

August 16, Robert Gamble, citizen, Grand Rapids. Carelessness: attempting to pass under train at street crossing.

October 16, Abner P. Closson, trespasser, Alba. Intoxicated; stepped

in front of train.

December 9, Holden Spink, freight conductor, Tustin. Fell off car and was fatally squeezed; purely accidental.

December 28, N. C. Hodson, citizen, Mancelona. Between cars exam-

ining coupling; carelessness.

December 30, Nye Nellis, laborer, Grand Rapids. Stepped from running engine, fell, struck head against tie; carelessness.

#### INJURED.

January 7, Willard Lewis, switchman, Grand Rapids. Coupling; flesh wound in arm.

January 20, Chas. Fletter, brakeman, Ross. Fell from caboose; careless-

February 20, Truman Odell, switchman, Kalamazoo. Coupling; injured in back.

April 16, C. A. Case, brakeman, Paris. Coupling, right hand mashed; accident.

April 24, W. L. Auman, engineer, near Stanwood. Collison; leg broken. April 25, Damon sisters (2), Kalamazoo. Struck on crossing; own care-

May 23, J. G. Shear, car repairer, Milton Junction. Working under car on siding without signal out; lost an arm.

May 29, Albert Zager, work train laborer, Whipples Siding. Accident; finger broken.

June 28, Frank Shultz, work train laborer, near Whipples Siding. Acci-

dent: leg and ankle jammed.

July 5, L. L. Chubb, switchman, Grand Rapids. Coupling, thumb crushed; accident.

July 29, Jos. Colier, switchman, Grand Rapids. Coupling, finger crushed;

August 2, Wm. Russell, citizen, Grand Rapids. Passing under train on siding, lost an arm; carelessness.

August 7, Wm. Duck, brakeman, Mendon. Coupling, hand injured;

carelessness.

August 15, J. Moll, brakeman, Kalamazoo. Coupling; carelessness.

August 31, Geo. Nichowitz, trespasser, Grand Rapids. Walking on track; leg broken.

September 13, A. A. Harris, section laborer, Mackinaw City. Hand car

collided with train, leg fractured; lack of caution.
September 3, Mrs. W. F. Pratt, passenger, Elmira. Getting off train, fell, slightly injured; carelessness.

November 21, Harry Wright, boy, Pellston. Attempting to cross track;

struck by passenger train and injured.

November 23, T. J. Bennett, brakeman, D. G. H. & M. Junction. unloading freight, right foot and ankle injured; accident.

November 25, Fred Brainard, brakeman, Mackinaw City. Coupling finger injured; accident.

October 3, Jas. Hall, car repairer, working under car without signal out;

badly cut about legs.

December 3, J. Doyle, brakeman, Bradley. Coupling, fingers injured; carelessness.

December 10, Wm. Aylwood, switchman, Grand Rapids. Coupling, thumb taken off; accidental.

December 12, L. Ransom, switchman, Muskegon. Coupling, lost an arm; accident; joint employé with C. & W. M. railroad.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed. Injured				
Causes of Accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions					2	
oupling cars					18	
alling from trains		1			1	
etting on and off trains		1		1		
lighway crossings			1			i
verhead obstructions						
respassers on track			8			
	<del></del>					
Total		٤	4	1	19	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,		_	_	6
Number of persons injured during the year,	_	_	-	25
Number of casualties purely accidental,	_	_	_	14
Number resulting from lack of caution, careles	sness	or n	nis-	
conduct,	_	· _	_	13
Persons killed or injured while intoxicated,	_		_	1
Trespassers and tramps killed or injured,	_	_	_	3
Suicides.				

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen. Brakemen		<u>-</u> -	7
Conductors Engineers Firemen	1	i	i
Laborers Shopmen	<u>1</u>	8 6	3 1 6
Yardmen Not classified above		ž	2
Total	2	19	21

STATE OF MICHIGAN, SS. COUNTY OF KENT,

W. O. Hughart, President, and F. A. Gorham, Auditor, of the Grand Rapids & Indiana Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. s. of R. R.] Signed,

W. O. HUGHART. F. A. GORHAM.

Subscribed and sworn to before me this 10th day of May, A. D. 1890.

WM. S. HINARD, Notary Public.

#### ANNUAL REPORT

#### OF THE

### MUSKEGON, GRAND RAPIDS & INDIANA RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed May 21, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, W. O. HUGHART, Grand Rapids, Mich.

Treasurer, W. R. SHELBY, Grand Rapids, Mich.

Secretary and Transfer Agent, J. H. P. HUGHART, Grand Rapids, Mich.

#### DIRECTORS.

W. O. Hughart, Grand Rapids, Mich.

W. R. SHELBY, Grand Rapids, Mich.

J. M. METHEANY, Grand Rapids, Mich.

T. J. O'BRIEN, Grand Rapids, Mich.

J. H. P. HUGHART, Grand Rapids, Mich.

L. W. KEATING, Muskegon, Mich.

N. McGraft, Muskegon, Mich.

#### STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—February	12, 1	886.			
Number of stockholders at date of last election,	-	-		-	7
Number of stockholders in Michigan at same date,	-	-	-	-	7
Amount of full paid stock held in Michigan at same date,	-	-	-	-	\$1,000
Fiscal year of company ends,—December 31.					
General offices of the company are located at Grand Rapids	, Mi	chiga	n.		

#### REMARKS.

Leased to Grand Rapids & Indiana Railroad Company for 99 years. Terms,—Net earnings guaranteed to be equal to interest on bonds.

#### ANALYSIS OF CAPITAL STOCK

Amount authorized by charter or articles of association.	<b>\$3</b> 50,000 <b>00</b>
Par value of shares . \$100 No. of shares issued . None. Amount paid in on shares not issued \$1,000 (0)	
Total amount paid in, as per books of the company.	\$1.000 00
Paid in per mile of road owned by company.  —\$6.55 miles.	

#### ANALYSIS OF DEBT ACCOUNTS.

#### POSTER REFE.

Chair, Character and Date of Boson.	Page of Property	Then Des	When Papains.	Account.
West martings, man't Fine & 200	76	Frag 1 388	_ New Burit	<b>53:39</b> 4
Trea. Semini intr.				\$35,.00

#### TANTACHE DHAY.

For what housest.	h to have a to Postel, or Nov Liquidical.	
Rer swindstractions. Rer synstyments. Per san states.	T) to test	200 J
for reservoir.  For regress Interven.	Name the Japaney 1, 180, -0, to your	2.5
Dom unflusioi sec		m.a (
	BRUARUUTTATOIN	

Trai îmisi ist. Trai mîmisi ist.				-				表示。(4) 例, 460	
Treal hide liabilities.		-	-	-	-	-	-	<b>\$</b> 79).460	<u>16</u>
Amount of host liabiline	s per	mile	nî z	mi.—	36.35	nies.		म की	<b>,6</b> 1
That amount if stock	E MIN	نواز ع	c.	-	-	~	-	を近期急	.5
Stock and left per mile :	i za	ui.—	¥i. <del>\</del> √5	nies		~	_	五字	÷

#### INTEREST ON THE FUNDED DEBT.

What is the amount due each year, . . . . \$37,500 00 Was it paid for the last year? Yes.

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road, and Branches Built by Company.

Total expended for construction,	<b>\$</b> 724,138 52
Average cost of construction per mile of road, not includ-	
ing sidings,—36.85 miles,	19,650 98
Proportion of cost of construction for Michigan,	724,138 52

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 1, 1886.

#### MAIN LINE.

Length completed in Michigan,	Miles. 100ths. 36.85	Miles. 100ths.
Total length completed,		36.85
Total length of road belonging to this company, Total length of road belonging to this company	36.85	
in Michigan, Aggregate length of sidings, spurs, and other		36.85
tracks not above enumerated,	<b>8.46</b>	8.46
Same in Michigan, Aggregate length of tracks belonging to this		0.40
company, computed as single track, Same in Michigan,	45.31	45.31

Gauge of track, 4 feet 9 inches.

STATE OF MICHIGAN, Ss. COUNTY OF KENT,

W. O. Hughart, President, of the Muskegon, Grand Rapids & Indiana Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, W. O. HUGHART.
Subscribed and sworn to before me this 12th day of May, A. D. 1890.

F. A. GORHAM, Notary Public.

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

John H. P. Hughart, Secretary, of the Muskegon, Grand Rapids, & Indiana Railroad Company, being duly sworn, deposes and says, that he caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, JOHN H. P. HUGHART. Subscribed and sworn to before me this 14th day of May, A. D. 1889.

GEO. H. NADOLLECK, Notary Public.

#### ANNUAL REPORT

#### OF THE

#### TRAVERSE CITY RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed May 21, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, PERRY HANNAH, Traverse City, Mich. Secretary, Treasurer and Transfer Agent, J. H. P. HUGHART, Grand Rapids, Mich.

#### DIRECTORS.

PERRY HANNAH, Traverse City, Mich.
SMITH BARNES, Traverse City, Mich.
W. H. C. MITCHELL, Traverse City, Mich.
THOS. T. BATES, Traverse City, Mich.
D. C. LEACH, Traverse City, Mich.
W. O. HUGHART, Grand Rapids, Mich.
W. R. SHELBY, Grand Rapids, Mich.

Terms expire May 8, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

when chartered or articles of association med,—Octo	Der 3	υ, το	1.				
Number of stockholders at date of last election,	-	<b>-</b> '	-	-	-	•	72
Number of stockholders in Michigan at same date,	-	-	-	-	-	-	71
Amount of full paid stock held in Michigan at same	date,	-	-	-	-	<b>\$35,400</b>	00
Date of annual meeting of stockholders,—Thursday	after	first	Wed	nesda	ıy iv	May.	
Fiscal year of company ends,—December 31.							
General offices of this company are located at Traver	se Cit	y, M	ich.		•		

#### REMARKS.

Leased to Grand Rapids & Indiana Railroad Company, for 50 years from January 1, 1883, rental, net earnings, guaranteed to be not less than interest on first mortgage bonds, or \$7,500 per year.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value shares, Average price received per share, Number of shares issued, Amount paid in on common, Supplies the shares issued, Supplies t	\$205,000 00
Total amount paid in as per books of the company, Paid in per mile of road owned by company, miles,—26,	205,000 00

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When Due.	Where Payable.	Amount.
First mortgage, January 1, 1883	3% *5%	January 1, 1988 January 1, 1988	New York New York	\$250,000 00 190,000 00
Total funded debt				\$440,000 00

<sup>\*</sup> Not to exceed five per cent.

#### UNFUNDED DEBT.

For What Incurred.	L	s the Sa	me to b	e Funde	d or Ho	w Liqui	dated.	Amount	•
For construction For equipment For real estate									
For renewals. For miscellaneous. For current balances.	Cor	ipons d	ue Janu	ary 1, 18	90,—to	be paid.	· · · · · · · · · · · · · · · · · · ·	\$3,7	50 00
Total unfunded debt								\$8,7	50 00
		RECA	PITUI	ATION	·.				
Total funded debt, Total unfunded debt,	-	-	-	-	-	-	-	\$440,000 3,750	
Total debt liabilitie	8,	-	-	-	-	-	-	<b>\$44</b> 3,750	00
Amount of debt liabilities Total amount of stock at Stock and debt per mile	nd d	ebt,	-	-	- <b>26 m</b> - -	iles,	- -	17,067 648,750 24,951	00
INI	ERE	ST ON	THE	FUNI	ED D	EBT.			
What is the amount of a Was it paid for the last				year,	-	-	-	<b>\$7,500</b>	00

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road, and Branches Built by Company.

Total expended for construction,  Average cost of construction per mile of road, not including	<b>\$4</b> 54,164 54
sidings,—26 miles, Proportion of cost of construction for Michigan,	17,467 84 454,164 54

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 1, 1872.

#### MAIN LINE.

Length completed in Michigan,	Miles, 100ths, 26.00	Miles. 100ths,
Total length completed,	<del></del>	26.00
Total length of road belonging to this company,	26.00	
Total length of road belonging to this company in Michigan,		26.00
Aggregate length in Michigan, of sidings, spurs, and other tracks not above enumerated,	2.68	
Same in Michigan, Aggregate length of tracks in Michigan belong-		2.68
ing to this company, computed as single track, Same in Michigan,	28.68	28.68

Gauge of track, 4 feet 9 inches.

STATE OF MICHIGAN, COUNTY OF GRAND TRAVERSE, \ 88.

Perry Hannah, President, of the Traverse City Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, PERRY HANNAH.
Subscribed and sworn to before me this 8th day of May, A. D. 1890.

GEO. W. HALL, Notary Public.

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

John H. Hughart, Secretary, of the Traverse City Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of saidcompany, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. CF R. R.] Signed, JOHN H. P. HUGHART. Subscribed and sworn to before me this 14th day of May, A. D. 1890. GEO. H. NADOLLECK, Notary Public.

#### ANNUAL REPORT

#### OF THE

#### CINCINNATI, JACKSON & MACKINAW RAILROAD COMPANY,

For the period beginning January 1, and ending, November 7, 1889.

[Filed May 21, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WALSTON H. BROWN, New York.
Vice President GEO. R. SHELDON, New York.
Secretary, F. B. SWAYNE, Van Wert, Ohio.
Comptroller, F. S. ANABLE, Toledo, Ohio.
Treasurer, DENNISTORN WOOD, New York.
General Manager, F. B. DRAKE, Toledo, Ohio.
Superintendent, J. B. FLANDERS, Toledo, Ohio.
Division Superintendent, W. T. BACKUS, Van Wert, Ohio.
Chief Engineer, G. L. McKIBBEN, Van Wert, Ohio.
Cashier, O. A. WILSON, Toledo, Ohio.
General Counsel, SWAYNE, SWAYNE & HAYES, Toledo, Ohio.

#### DIRECTORS.

Saml. Thomas, New York City, N. Y.
Geo. R. Sheldon, New York City, N. Y.
Geo. F. Stone, New York City, N. Y.
Walston H. Brown, New York City, N. Y.
C. M. McGhu, New York City, N. Y.
R. T. Wilson, New York City, N. Y.
J. Kennedy Tod, New York City, N. Y.
J. Kennedy Tod, New York City, N. Y.
JAY O. Moss, New York City, N. Y.
H. Walters, Baltimore, Md.
Dan P. Eells, Cleveland, Ohio,
W. T. Carrington, Toledo, Ohio.
F. B. Drake, Toledo, Ohio.
F. S. Anable, Toledo, Ohio.
F. L. Hammer, Van Wert, Ohio.
Oscar Sheppard, West Alexandria, Ohio.

Terms expire October 1, 1890.

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,				6
Number of persons injured during the year,		-	-	25
Number of casualties purely accidental,	_	_	_	14
Number resulting from lack of caution, carele	ssness	, or n	nis-	
conduct,	_	· _	_	13
Persons killed or injured while intoxicated,	_	_	_	1
Trespassers and tramps killed or injured,	_	_	_	3
Suicides				

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

·	Killed.	Injured.	Total.
Beggagemen			
Brakemen	·····i	7	
Ingineers Firemen		1	
Laborers Shopmen	1 1	8	
Yardmen Not classified above		2	
Total		10	
TOWL	Z	19	2

STATE OF MICHIGAN, Ss. COUNTY OF KENT,

W. O. Hughart, President, and F. A. Gorham, Auditor, of the Grand Rapids & Indiana Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. s. of R. R.] Signed,

W. O. HUGHART. F. A. GORHAM.

Subscribed and sworn to before me this 10th day of May, A. D. 1890. Wm. S. Hinard, Notary Public.

#### ANNUAL REPORT

#### OF THE

### MUSKEGON, GRAND RAPIDS & INDIANA RAILROAD COMPANY.

For the Year Ending December 31, 1889.

[Filed May 21, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, W. O. HUGHART, Grand Rapids, Mich.

Treasurer, W. R. SHELBY, Grand Rapids, Mich.

Secretary and Transfer Agent, J. H. P. HUGHART, Grand Rapids, Mich.

#### DIRECTORS.

W. O. HUGHART, Grand Rapids, Mich.

W. R. SHELBY, Grand Rapids, Mich.

J. M. METHEANY, Grand Rapids, Mich.

T. J. O'BRIEN, Grand Rapids, Mich.

J. H. P. HUGHART, Grand Rapids, Mich.

L. W. KEATING, Muskegon, Mich.

N. McGraft, Muskegon, Mich.

#### STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—February	12, 1	886.			
Number of stockholders at date of last election,	-	-		-	7
Number of stockholders in Michigan at same date,	-	-	-	-	7
Amount of full paid stock held in Michigan at same date,	-	-	-	-	\$1,000
Fiscal year of company ends,—December 31.					
General offices of the company are located at Grand Rapids	. Mic	higa	n.		

#### REMARKS.

Leased to Grand Rapids & Indiana Railroad Company for 99 years. Terms,—Net earnings guaranteed to be equal to interest on bonds.

Cash items: Cash, Due from agents,	-	-	- <i>·</i>	\$7,227 28,498	75 14		
Other assets: Materials and supplies,				<b>\$</b> 15,638	33	<b>\$</b> 35,725	89
Debit balances from co	om <del>p</del> an	ies a	ınd	<b>4</b> 20,000	-		
individuals,	_	-	_	34,164	81		
·						49,803	14
Income account,	-	-	-	•		14,149	<b>72</b>
Total,	-	-	-		-	<b>\$21</b> ,873,049	49
GENER	AL BA	LANC	E S	HEETCr.			
Comital stock				<b>@1</b>	ΛΛ		
Capital stock, Funded debt,	-	-	-	<b>\$16,280,835</b> 3,629,000			
r anded debt,	-	-	-	0,020,000		<b>\$19,909,835</b>	00
Bonds and stocks in trust		_				1,505,500	
Unfunded debt:	, -					, ,	
Interest unpaid, including	ng acc	rued	to				
date,	_	_	-	<b>\$71,111</b>			
Notes payable,	-	-	-	230,784	25		
Vouchers and accounts,	-	-	-	155,818	27		40
						457,714	49
Total,	-	-	-			<b>\$21,873,049</b>	49
COST O	F ROA	D AN	D EX	QUIPMENT.			•
				_			
Total Cost for Construction and	l Equip	ment c	f Ko	ad and Branci	res L	suit by Compa	ıny.
Total expended for construction Average cost per mile of	ction a	nd eq l not	uipn inc	nent, luding sidii	- 128.	<b>\$19</b> ,888, <b>430</b>	74
-325.1 miles,	_	_	_		_	61,176	
Proportion of cost for Mich	igan,	_	-		_	9,493,345	99
CHARGES AND CREI	oits t	O PRO	PEI	RTY DURING	TE	IE YEAR.	
	v	AIN L	INP				
	æ.	ain D	LIVE.				
Extensions and new sidings				<b>\$26,576</b>	95		
New buildings,		-	-	6,248			
New fences	-	-	-	24,666	35		
Machinery and tools,		-	_	486			
New cars,	-	-	_	1,021			
Total charges to property a	ccount	as al	ove,			<b>\$</b> 59,000	15

#### ANALYSIS OF EARNINGS.

#### PASSENGER EARNINGS.

	PASSENG	ER E	ARNING	<del>1</del> 8.			
Main line and branches: Local fares, Through fares,	- -	-	<u>-</u> -	\$113,640 26,393			
Total passenger fares, Express and baggage, Mails,	•	- - -	- - -	\$140,034 29,506 18,797	<b>0</b> 8		
Total passenger depart	rtment e	arnin	ıgs,		_	<b>\$188,33</b> 8	04
Proportion for Michigan, Per train mile, Per mile of road,	- - -	- - -	- - -	- <b>\$93,1</b> 8	80 77 53 41 04		
	FREIGH	IT EA	RNING	3.			
Main line and branches: Local traffic, Through traffic,			<del>-</del>	<b>\$24</b> 8,898 88, <b>494</b>	13 51		
Total traffic,			-	<b>\$</b> 337,392	64		
Total freight departm	ent earn	ings,	-			<b>\$</b> 337,392	64
Proportion for Michigan, Per train mile, Per mile of road,		: -	- -	<b>\$166,927</b> 969	91		
Total transportation	earnings,	,				<b>\$</b> 525,730	68
Transportation earnings promother sources,	per mile o per train	of ros mile,	ad, - -	<b>\$1,</b> 510	29 73	2,732	78
Total earnings from	operation	of	road,			<b>\$</b> 528,463	46
Total earnings per mile of Total earnings per train r Proportion of taxable earn	nile, . nings for	Mich	igan,	<b>\$1,51</b> 8	14 73	\$261,460	42
Total taxable earnings pe Michigan,—172.18 mile Dividends on stock owned	<b>8</b> , _	of ros - -	ad in - -	1,518	14	169	78
Total income from al	l sources	١,	-		- <u>.</u>	<b>\$</b> 528, <b>6</b> 33	24
Proportion of income for	Michiga	an,	_		_	261,460	42

#### ANALYSIS OF EXPENSES.

CLASS 1	l.—Maintenance	of	Way	and	Buildings.
---------	----------------	----	-----	-----	------------

Repairs of road w	av an	d trac	k.	_	_	_	_	_	<b>\$</b> 63,663	33
Renewals of rails,	-			_		_			10	
Renewals of ties,	-	-	-	-	-	-	-	-	17,279	
Repairs of bridges	incl	ndina	culve	a <del>rta</del> a	nd co	ttle o	norde	-	9,361	82
Repairs of fences,	rond.	arocci	DOM: 0	nd a	ama	one 8	uaius,	-	2,768	V3
Repairs of building	1Uau		_	ina si	Впр,	-	-	-	4,885	70
repairs or building	igs,	-	-	-	-	-	-	-	4,000	10
Total,									<b>\$</b> 97,968	28
10001,	-	•	-	-	-	-	-	-	Ψυ1,000	20
· CLA	ss 2	Maint	enanc	e of A	lotive	Power	and C	ars.	•	
Repairs of locomo	tives.								<b>\$27,490</b>	33
Repairs of passeng	TAT CA	re	-	-	-	-	-	•	9,687	
Repairs of freight	core	10,	-	-	-	-	-	-	24,312	
rechang or morem	Cais,		-	-	-	-	-	-	22,012	U3
Total,	-	-	-	-	-	-		-	<b>\$</b> 61,490	11
	CLAS	ss 3.—	Condu	icting	Tran	<b>s</b> porta	tion.			
Fuel for locomotiv	'es,	_	_	_	_	_	_	_	<b>\$</b> 55,803	<b>62</b>
Water supply.		_	_	_	_	_	_	_	4,645	53
Oil and waste.					-	-		_	4,377	
Locomotive service	Α.	_		_					43,910	
Passenger train'se	rvice	-	_	_	-	-	-	-	9,815	41
Pagganger train gu	nnlie	2	-	-		-	-	-	1,294	
Mileage of pagean	ppito	<b>3</b> 9	-	-	-	-	-	-	190	
Fuel for locomotive Water supply, Oil and waste, Locomotive service Passenger train se Passenger train su Mileage of passeng Freight train service Train service Train service	sor ca	16,	-	-		-	-	-	23,594	စ္မဂ
Freight train servi Freight train supp Mileage of freight	lion	-	-	-	-	-	-	-	331	0 <u>4</u> 71
Freight train supp	1168,	-	-	-	-	-	-	-		
mileage of freight	cars,		-		- ,	、	-	-	5,402	02
Telegraph expense	s (ma	inten	ance	ana c	perat	ing),	-	-	15,110	
Damage and room						-	-	-	1,867	
Damages to proper	rty an	d cat	tle,	-	-	-	-	-	3,959	32
Personal injuries,			-	-	-	-	-	-	1,742	76
Agents and station	servi	ice,	-	-	-	-	-	-	31,651	
Station supplies,	-	-	-	-	-	-	-	-	1,568	<b>64</b>
Total,	_	-	-	-	-	-	-	_	\$205,266	<del></del>
		CLASS	s 4.—(	Jenero	ıl Exp	enses.				
Salaries of the gen	eral c	officer	a of t	he co	mnan	V			\$22,202	07
Salaries of clerks i	n cen	erel	offices	1	шран	·J ,	-	-	12,791	65
L'am arnance	n gon					-	-	-	7,527	21
Law expenses, Insurance,	-	-	-	-	-	-	-	-	1,621	
Insurance, Stationery and pri Outside agencies a	n. n.tin.~	-	-	-	-	-	-	-	5,635	40 70
Outside services	nung,	, 	<u>-</u>	-	-	-	-	-		
Continue agencies a	та ва	vertis	ıng,	-	-	-	-	-	9,889	00 4.4
Contingencies,	-	-	-	-	-	-	-	-	6,558	<del>44</del>
Taxes,	-	-	-	-	-	-	-	-	27,053	<b>29</b>
Total,	-	•_	-	-	-	-	-	-	<b>\$</b> 93,279	<del>56</del>

#### RECAPITULATION OF EXPENSES.

		Per cer Exper	t of	•
Maintenance of way and buildings,	_	21.3		<b>\$</b> 97,968 28
Maintenance of motive power and cars,		13.4		61,490 11
Conducting transportation,		44.8		205,266 61
General expenses, including taxes,		20.	37 — —	93,279 56
Total operating expenses and taxes, Operating expenses and taxes per mile of a 348.1 miles operated,		1,315 '		<b>\$4</b> 58,004 56
Operating expenses and taxes per train mile for trains earning revenue,—718,969 mil	run, les,	(	63	
Proportion of operating expenses and taxe Michigan:	s for			
Main line,	_ 220	6,529	04	
Total proportion of expenses for Michig Percentage of expenses to earnings,—86.67				226,529 04
Net earnings per mile of road,	· -	202		•
Net earnings per train mile,	-		10	
DESCRIPTION OF	ROAD.			
For description of road see receiver's repor	t.			
MILEAGE, TRAFFI	C, ETC.			
MILEAGE, TRAFFI  Train Mileage				
Train Mileage Miles run by passenger trains during the ye	e. ear,	_	_	328,704
Train Mileage Miles run by passenger trains during the year Miles run by freight trains during the year	e. ear,	-	- -	328,704 302,944
Train Mileage Miles run by passenger trains during the ye	e. ear,	- - -	- -	328,704 302,944 87,321
Train Mileage Miles run by passenger trains during the year Miles run by freight trains during the year	ear, .,	- - -	- - -	<b>302,944</b>
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains,	ear, , , -	-	-	302,944 87,321
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains,  Total mileage of trains earning revenue  Passenger Traff	ear, , - e, - Numbe	- - -	- -	302,944 87,321 718,969
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains,  Total mileage of trains earning revenue  Passenger Traff	ear, ;, - e, -	ities. 5	- - - - Miles.	302,944 87,321
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains,  Total mileage of trains earning revenue Passenger Traff  Number of through passengers carried,	e. ear, e, ic. and Quant 31,79	ities. 95 85 —	- - - - Miles.	302,944 87,321 718,969
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains,  Total mileage of trains earning revenue Passenger Traff  Number of through passengers carried, Number of local passengers carried,	ear,  o,  oic.  and Quant 31,79 245,52  277,32  done mil	ities. 95  5    0	- - - Miles.	302,944 87,321 718,969 Rate. Dollars. Cents.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains,  Total mileage of trains earning revenue Passenger Traff  Number of through passengers carried, Number of local passengers carried,  Total number of passengers carried,  Total passenger mileage, or passengers carried Average distance traveled by each passenger Average amount received from each passenger	ear, ear, fic. and Quant 31,79 245,52 277,32 done miles, ger,	ities. 95 		302,944 87,321 718,969 Rate. Dollars. Cents.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains,  Total mileage of trains earning revenue Passenger Traff  Number of through passengers carried, Number of local passengers carried,  Total number of passengers carried,  Total passenger mileage, or passengers carried Average distance traveled by each passenger	ear,  fic. and Quant 31,79 245,52  277,32 done mileor, assenge	ities. 95 		302,944 87,321 718,969 Rate. Dollars. Cents.

#### Freight Traffic.

	rreug	nt 1	rajjic.				
Number of tons of through f Number of tons of local freig	reight ht car	carı ried,	ied,	Number and Quan 184, 398,	tities. 082	Miles.	Rate. Dollars, Cents.
Total tons of freight carr	ried,	-	-	582,	717		
Total mileage of through frei Total mileage of local freight	ght,	-	-	-		066,679 665,520	
Total freight mileage, or	tons	carri	ed one	e mile,	41,	732,199	)
Average ton haul for through Average ton haul for local free Average ton haul for all free	ight,	_	-	- - -	- - -	65.5 74.4 71.6	<u>.</u>
Average amount received for Average rate per ton per mile Average rate per ton per mile Average rate per ton per mile	receiv , rece	red fo ived	or thre for lo	cal fre	ight,	- , - - -	\$0 58.00 00.73 00.84 00.81
Freight Fo	rwarde	ed at	Michiq	yan Sta	tions.		Tons.
Grain,	- 	-	-	<u>-</u> -	-	-	10,024 2,191
Provisions (beef, pork, lard, Animals,	-	-	-	-	-	-	744 3,082
Other agricultural products, Lumber and forest products,	-	-	-	-	-	-	7,054 34,941
Coal, Plaster, lime and cement,	-	-	- -	-	-	-	437 455
Salt, Petroleum,	- -,	-	- -	-	-	-	394 158
Railroad iron, iron and steel r Pig and bloom iron,	-	-	-	-	-	• .	55 <b>4</b> 57
Other iron and castings, Ores,	-	-	-	-	-	-	322 170
Stone, brick and sand, Manufactures,—articles shipped from point of produc-							
tion,	es not	enu	_ merat	ed abo	ve,	- 	1,587 16,883
Total forwarded,	-	-	-	-	-	-	83,920
Tonnage of Articles Transported—Entire Road.							
Oi						Tons.	Per Cent.
Grain,	- , - ,	-	-	-		28,717 4,128	4.93 .71
Provisions (beef, pork, lard, Animals,	etc.),	-	-	-		1,587 8,465	$\begin{array}{c} .27 \\ 1.45 \end{array}$
Other agricultural products, Lumber and forest products,	-	-	-	- -		13,692 84,354	2.33 14.48
production	-	-	-	-		,	

					Tons.	Per Cent.
Coal,	_	_	_	_	239,864	41.16
Plaster, lime and cement,	-	_		-	1,677	.29
Salt,	_	_	_	_	1,378	.24
Petroleum,	-	_	_	_	3,409	.59
Railroad iron, iron and steel ra	ails,	-	_	-	752	.13
Pig and bloom iron,	_ `	_	-	_	30,850	5.30
Other iron and castings,	_	_	-	_	3,838	.66
Ores,	-	_	_	-	170	.03
Stone, brick and sand,	_	_	_	_	91,864	15.76
Manufactures,—articles shipp	$\mathbf{ed}$	from	point	of	•	
production,	-	_		_	19,801	3.40
Merchandise and other article	s n	ot env	ımera	ted		
above,	-	-	-	-	. 48,171	8.27
Total tons carried,	_	_	-	-	582,717	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company; fixed sum per month; general express business; freight taken at depots.

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

February 6, T. E. Spruner, car repairer, C. & St. L. railroad near Battle Creek. Trespasser on track with velocipede; company not responsible.

#### INJURED.

January 10, J. Attig, engineer, Addison. Cars running out of siding and striking engine.

February 12, D. E. Austin, brakeman, Onsted. Coupling. April 5, T. J. Tivnen, brakeman, Ria. Coupling.

April 23, S. F. Miller, foreman car department, Marshall. Coupling.

May 4, H. Wilberham, brakeman, Addison. Coupling.

May 14, Chas. Bierman, tramp, Onsted. Fell from train.

May 24, J. White brakeman, Addison. Slipped setting brakes.

May 28, G. A. Godfrey, engineer, Marshall. Getting off engine.

October 16, J. Carey, bridge carpenter, near Jerome. Fell from bridge.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.	1	Killed.		Injured.					
(Adams of Moordon)	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.			
Collisions									
Connling come		1 1		i					
Derailments	-'		<b></b>						
falling from trains						· • • • • • • • • • • • • • • • • • • •			
letting on and off trains	-								
	-								
fiscellaneous		l <b></b>			. 3				
verhead obstructions									
Trespassers on tracks	-								
<del></del>	-	l ;							
Total		1 1	1	1	8				

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,		_	_	_	_	1
Number of persons injured during the year,	_	_	_	-	_	9
Number of casualties purely accidental,	_	-	_	_	_	2
Number resulting from lack of caution, careless	sness	3, or	misc	ondu	ıct,	6
Persons killed or injured while intoxicated,	_	· _	-	_	_	
Trespassers and tramps killed or injured,	_	_	-	_	_	2
Suicides.				_		_

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	Killed,	Injured.	Total,	
Baggagemen				
Brakemen		4	4	
Engineers./ Firemen. Laborers.		z	z	
Shopmen		1	1	
Not classified above		1	1	
Total.		8	8	
			<del></del>	

STATE OF OHIO, COUNTY OF LUCAS, Ss.

F. B. Drake, General Manager, and F. S. Anable, Comptroller, of the Cincinnati, Jackson & Mackinaw Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the condition and affairs of said company, on the seventh day of November, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

F. B. DRAKE. F. S. ANABLE.

Subscribed and sworn to before me this 19th day of May, A. D. 1890. B. A. HAYES, Notary Public.

#### ANNUAL REPORT

#### OF THE

### CINCINNATI, JACKSON & MACKINAW RAILROAD COMPANY,

### WALSTON H. BROWN, RECEIVER.

For the period beginning November 8, 1889.

[Filed May 21, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Comptroller, F. S. ANABLE, Toledo, Ohio.

General Manager, F. B. DRAKE, Toledo, Ohio.

Superintendent, J. B. FLANDERS, Toledo, Ohio.

Division Superintendent, W. T. BACKUS, Van Wert, Ohio.

Chief Engineer, G. L. McKIBBEN, Van Wert, Ohio.

Cashier, O. A. WILSON, Toledo, Ohio.

General Passenger Agent and Freight Agent, T. C. M. SCHINDLER, Toledo, O. General Counsel, SWAYNE, SWAYNE & HAYES, Toledo, Ohio.

Receiver, WALSTON H. BROWN, New York.

#### DIRECTORS.

### [See company report.]

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—March 9, 1886.		
Number of stockholders at date of last election,	-	259
Number of stockholders in Michigan at same date,	-	9
Amount of full paid stock held in Michigan at same date,	-	170 shares.
Date of annual meeting of stockholders,—First Wednesday in October.		
Fiscal year of company ends,—June 30.		•
General offices of the Receiver are located at Toledo, Ohio.		

### GENERAL EXHIBIT.

			DEBIT.	CREDIT.
Total income, Total expenses, including taxes,	-	-	<b>\$7</b> 8,024 82	<b>\$</b> 94,974 98
Net income.	_			<b>\$</b> 16.950 16

1889.] CINCINNATI, JACKSON & MACKINAW RAILROAI	D CO. 413
Rentals of buildings, tracks, etc., \$2,721 45	
Balance for the year,	<b>\$14,22</b> 8 <b>71</b>
Balance forward to next year, \$14,228 71	
<b>\$14</b> ,228 <b>7</b> 1	\$14,228 71
ANALYSIS OF DEBT ACCOUNTS.	•
FUNDED DEBT.	
Funded debt,	None.
UNFUNDED DEBT.	
For current balances,	<b>\$116,171</b> 40
RECAPITULATION.	
Total unfunded debt,	<b>\$</b> 116,171 40
Total debt liabilities,	\$116,171 40
Amount of debt liabilities per mile of road,—325.1 miles,	357 34
CENTED AT DATABLE CITEDIT D	
GENERAL BALANCE SHEET.—Dr.  Improvement and equipment account. \$682.04	
Improvement and equipment account, \$682 04 Other investments: C., J. & M. Co., 14,708 97	
Improvement and equipment account, Other investments: C., J. & M. Co.,  14,708 97	<b>\$</b> 15,391 01
Improvement and equipment account, Other investments: C., J. & M. Co.,  Cash items: Cash,  \$23,898 50	<b>\$</b> 15,391 01
Improvement and equipment account, Other investments: C., J. & M. Co., 14,708 97  Cash items: \$23,898 50 Due from agents, 33,286 48	\$15,391 01 57,184 98
Improvement and equipment account, Other investments: C., J. & M. Co.,  Cash items: Cash, Due from agents,  Other assets:  Materials and supplies,  \$682 04  \$682 04  \$23,898 07  \$23,898 50  \$33,286 48	·
Improvement and equipment account, Other investments: C., J. & M. Co.,  Cash items: Cash, Due from agents,  Other assets:  Materials and supplies, Debit balances from companies and	·
Improvement and equipment account, Other investments: C., J. & M. Co.,  Cash items: Cash, Due from agents,  Other assets:  Materials and supplies, Debit balances from companies and	·
Improvement and equipment account, Other investments: C., J. & M. Co.,  Cash items: Cash, Due from agents,  Other assets:  Materials and supplies, Debit balances from companies and	57,184 98
Improvement and equipment account, Other investments: C., J. & M. Co.,  Cash items: Cash, Due from agents,  Other assets:  Materials and supplies, Debit balances from companies and individuals,  44,330 81	57,184 98 57,824 12
Improvement and equipment account, Other investments: C., J. & M. Co.,  Cash items: Cash, Due from agents,  Other assets:  Materials and supplies, Debit balances from companies and individuals,  Total,  GENERAL BALANCE SHEET.—Cr.  \$682 04  24,708 97  14,708 97  233,898 50  33,286 48  243,393 31  251,493 31  261,493 31  261,493 81	57,184 98 57,824 12
Improvement and equipment account, Other investments: C., J. & M. Co.,  Cash items: Cash, Due from agents,  Other assets:  Materials and supplies, Debit balances from companies and individuals,  Total,  GENERAL BALANCE SHEET.—Cr.	57,184 98  57,824 12  \$130,400 11
Improvement and equipment account, Other investments: C., J. & M. Co.,  Cash items: Cash, Due from agents,  Other assets:  Materials and supplies, Debit balances from companies and individuals,  Total,  GENERAL BALANCE SHEET.—Cr.  \$682 04  14,708 97  223,898 50  33,286 48  \$13,493 31  44,330 81	57,184 98 57,824 12

### CHARGES AND CREDITS TO PROPERTY DURING THE RECEIVER PERIOD.

		M.	IN L	INE.				
Extensions and new s	idinas						<b>\$</b> 86	42
New buildings.	iumgo,	-	-	-		-	137	
Few fences,	-	-	-	-		-	128	
New buildings, Few fences, Machinery and tools,	_	_	-	-		-	<b>7</b> 8	94
New cars,	-	-	-	-		-	250	00
m . 1								
Total,	-	-	-	-		-	<b>\$</b> 682	04
Total charges to prop	erty acc	ount	as ab	юve,	<b>- \$682</b>	04		
Net addition to p	roperty	acco	unt,	-		-	682	04
	ANAI	Lysis	OF	EARN	NGS.			
	PA	88 <b>E</b> NG	er e	ABNIN	38.			
Local fares,					<b>\$</b> 19,418	21		
Through fares,	-	-	-	-	3,583	11		
	,							
Total passenger f	ares,	-	-	-	<b>\$23,001</b>	32		
Express and baggag	ge,	-	_	-	5,090	88		
Mails,	-	-	-	-	3,144	00		
Total passenger d	lepartm	ent e	arnin	gs,		-	<b>\$</b> 31,239	20
Departion for Mis	hiann				<b>\$</b> 15, <b>4</b> 55	70		
Proportion for Mic.	mgan,	-	-	-	<b>410,400</b>	67		
Per train mile, Per mile of road,	-	-	-	-	89	74		
	F	REIGE	T RA	BNING	3.			
Local traffic,	_		_	-	<b>\$42,021</b>			
Through traffic,	-	-	-	-	21,654	35		
Total traffic,	-	-	-	-	\$63,675	57		
Total freight dep	artment	earn	ings,	-		-	63,675	<b>57</b>
Proportion for Mich	higan,	_	_	_	<b>\$</b> 31,503	86		
Per train mile,	-	-	_	_	1	03		
Per mile of road,	-	-	-	-	182	92		
Total transportat	ion earr	ings,		-		-	\$94,914	77
Transportation comin	.cm 70-	mila s	.f	.a	<b>\$</b> 272	ee		
Transportation earning Transportation earning	igs per i	mue (	n rue mile	su,	<b>4</b> 212	87		
From other sources,	-Po hor	_		-		••	60	21
	-		_	_				
Total earnings fro	om oper	ation	of r	oad,		-	<b>\$</b> 94,974	98

1889.]	CINCINN	ATI,	JACK	SON	& M.	ACKIN	Ι <b>Α</b> W	RAILF	OAD	co. ·	<b>4</b> 15
an , 1	nings per nings per		• • • • • • • • • • • • • • • • • • • •			-		<b>\$</b> 272	84 87		
Proporti	mings per on of taxa xable ear	ble e	arning	gs for	Micl	higan,	n	46,989	44		
Michig		_	-			-		272	84		
Tota	l income	from	all so	urces	,	-	-	-		\$94,974	98
Proportio	on of inco	ome f	o <b>r M</b> i	chiga	n,	-	-	-		46,989	44
			ANAI	ysis	OF	EXPE	nse	8.			
	C	lass 1	.— <b>М</b> аі	ntena	nce of	Way	and l	Building	18.		
	of road wa	ay an	d trac	k,	-	_	-	_	_	\$11,654	
Renewal	s of ties,	-, ,	- -	- ,	-	ī		,	-	1,607	42
Repairs	of bridges	, incl	uding	culv	erts a	nd ca	ttle	guards,	-	1,684	
Repairs	of fences,	road	cross	ngs,	ana s	igns,	-	-	-	579 1,365	
repairs	of buildin	gs,	-	-	-	-	-	-	-	1,505	19
Tota	ı <b>l,</b> _	-	-	-		-	-	-	-	<b>\$</b> 16,890	75
	CLA	ass 2.—	-Main	tenano	e of 1	lotive	Powe	er and C	ars.		•
Repairs	of locomo	tives.	_	_	_	_	_	_	_	<b>\$5,44</b> 6	21
Repairs	of passeng	zer ca	rs.	_	_	_	-	_	-	2,095	30
Repairs	of locomo of passeng of freight	cars,	-	-	_	-	_	-	_	3,044	02
Tota		-	_	-	-	-	-	_	-	<b>\$10,585</b>	53
		-	-	-	-	-	- sport	- ation.	-	<b>\$10,585</b>	53
Tota	<b>.l,</b> _	- Cr.	-	-	-	- Trans	- sport	- ation.	-	·	
Tota	l, .	- Cl./	- ASS 3.—	- -Conds	-	-	- sport	- a <b>tion</b> . -	-	<b>\$10,12</b> 5	43
Tota	l, .	- Cl./	- ASS 3.—	- -Conds	- ucting - -	-	- sport - -	- a <b>tion</b> . - -	-	\$10,125 747	43 67
Tota  Fuel for Water so Oil and	locomotiv	- Ci./ res, -		- Conds - -	- ucting - - -	- • <b>Tran</b> : - - -	- sport - - -	- <b>ation.</b> - - -	-	\$10,125 747 869	43 67 86
Tota  Fuel for Water so Oil and	locomotiv	- Ci./ res, -		- Conds - -	- ucting - - -	- • <b>Tran</b> : - - -	- sport - - - -	- a <b>tion.</b> - - - -		\$10,125 747 869 8,060	43 67 86 26
Tota  Fuel for Water so Oil and	locomotiv	- Ci./ res, -		- Conds - -	- ucting - - -	- • <b>Trans</b> - - - - -	-	- <b>ation.</b> - - - -		\$10,125 747 869 8,060 1,638	43 67 86 26 79
Fuel for Water st Oil and v Locomot Passenge Passenge	locomotivapply, waste, ive service or train se	CL./ ves, e, e, irvice,	- ASS 3.— - - - - - - - - - - - - - - - - - - -	- -Cond: - - - - -	- ucting - - - - -	- Trans - - - - -	- sport - - - - -	- ation. - - - - -	-	\$10,125 747 869 8,060 1,638 275	43 67 86 26 79 41
Fuel for Water st Oil and v Locomot Passenge Passenge	locomotivapply, waste, ive service or train se	CL./ ves, e, e, irvice,	- ASS 3.— - - - - - - - - - - - - - - - - - - -	- -Cond: - - - - -	- ucting - - - - -	- - - - - - - -	-	-		\$10,125 747 869 8,060 1,638 275 4,630	43 67 86 26 79 41 63
Fuel for Water st Oil and v Locomot Passenge Passenge Freight Freight	locomotive upply, waste, ive service or train servitrain support freight	CL.  ves, e, e, pplie ice, blies, cars.	- 	- 	- ucting - - - - - - -	- - - - - - - -	-	-	-	\$10,125 747 869 8,060 1,638 275 4,630 54	43 67 86 26 79 41 63 32
Fuel for Water st Oil and v Locomot Passenge Passenge Freight Freight	locomotive upply, waste, ive service or train servitrain support freight	CL.  ves, e, e, pplie ice, blies, cars.	- 	- 	- ucting - - - - - - -	- - - - - - - -	-	- - - - - -	-	\$10,125 747 869 8,060 1,638 275 4,630	43 67 86 26 79 41 63 32 88
Fuel for Water st Oil and t Locomot Passenge Passenge Freight Mileage Telegrap	locomotive apply, waste, ive service or train servitrain support freight hexpense	ces, e, pplie ice, cars, es (ma		-Cond	- ucting and		-	-	-	\$10,125 747 869 8,060 1,638 275 4,630 54 1,118	43 67 86 26 79 41 63 32 88 73
Fuel for Water st Oil and t Locomot Passenge Freight freight Mileage Telegrap Damages	locomotive upply, waste, ive service or train servitrain support freight	ces, e, pplie ice, cars, es (mo	ass 3.—	- Cond: - - - - - - - - - tle,	- ucting	- Trans	- - - - - - - -	- - - - - - - - -	-	\$10,125 747 869 8,060 1,638 275 4,630 54 1,118 2,526 20 109	43 67 86 26 79 41 63 32 88 73 50
Fuel for Water strong of the Communication of the C	locomotive apply, waste, ive service or train service train supported freight the expense injuries, and station	ces, e, rvice, pplie ice, blies, cars, es (me	ass 3.—  s, ainter	- Cond: - - - - - - - - - tle,	- ucting	- Trans	- - - - - - - -	- - - - - - - - -	-	\$10,125 747 869 8,060 1,638 275 4,630 54 1,118 2,526 20 109 5,411	43 67 86 26 79 41 63 32 88 73 50 07 61
Fuel for Water strong of the Communication of the C	locomotive apply, waste, ive service or train service train supported freight the expense injuries, and station	ces, e, rvice, pplie ice, blies, cars, es (me	ass 3.—  s, ainter	- Cond: - - - - - - - - - tle,	- ucting	- Trans	- - - - - - - -	- - - - - - - - -	-	\$10,125 747 869 8,060 1,638 275 4,630 54 1,118 2,526 20 109	43 67 86 26 79 41 63 32 88 73 50 07 61
Fuel for Water strong of the Communication of the C	locomotive apply, waste, ive service or train service train supportering to proper injuries, and station applies,	Cizes, e, rvice, pplie ice, blies, cars, es (marty ar	ass 3.—	- Cond: - - - - - - - - - tle,	- ucting	- Trans	- - - - - - - -	- - - - - - - - -	-	\$10,125 747 869 8,060 1,638 275 4,630 54 1,118 2,526 20 109 5,411	43 67 86 26 79 41 63 32 88 73 50 07 61 57
Fuel for Water st Oil and t Locomot Passenge Freight Freight Mileage Telegrap Damages Personal Agents a Station s	locomotive apply, waste, ive service or train service train supportering to proper injuries, and station applies,	Cizes, e, rvice, pplie ice, blies, cars, es (marty ar	ass 3.—		- ucting and	- Trans			-	\$10,125 747 869 8,060 1,638 275 4,630 54 1,118 2,526 20 109 5,411 385	43 67 86 26 79 41 63 32 88 73 50 07 61 57
Fuel for Water stoll and the Locomot Passenge Passenge Freight of Mileage Telegrap Damages Personal Agents a Station s	locomotive apply, waste, ive service or train service train supportering to proper injuries, and station applies,	ces, e, pplie ice, cars, es (marry an	ass 3.—  s,  ainter  cice,  Crass		- ucting and	- Trans	ing)		-	\$10,125 747 869 8,060 1,638 275 4,630 54 1,118 2,526 20 109 5,411 385 \$35,974	43 67 86 26 79 41 63 32 88 73 50 07 61 57 73
Fuel for Water stoll and the Locomot Passenge Freight of Mileage Telegrap Damages Personal Agents a Station s	locomotive apply, waste, ive service or train service train supportering the expenses to proper injuries, and station supplies, al,	res, e, pplie ice, cars, es (marry an	ass 3.—  s,		and of	- Trans	ing)		-	\$10,125 747 869 8,060 1,638 275 4,630 54 1,118 2,526 20 109 5,411 385 \$35,974	43 67 86 26 79 41 63 32 88 73 50 07 61 57 73
Fuel for Water so Oil and Locomot Passenge Passenge Freight Mileage Telegrap Damages Personal Agents a Station s  Total	locomotive apply, waste, ive service or train service train supported freight the expenses to proper injuries, and station applies, all, —  of the general consess, in the service of clerks in the general conses, and the general conses, and the general conses, and the general conses, and the general consess, and the gene	res, e, pplie ice, cars, es (marry an	ass 3.—		and of	- Trans	ing)		-	\$10,125 747 869 8,060 1,638 275 4,630 54 1,118 2,526 20 109 5,411 385 \$35,974	43 67 86 26 79 41 63 32 88 73 50 07 61 57 73
Fuel for Water stoll and the Locomot Passenge Passenge Freight of Mileage Telegrap Damages Personal Agents a Station s  Total	locomotive apply, waste, ive service or train service train supported freight the expenses to proper injuries, and station applies, al,	ces, e, rvice, pplie ice, cars, es (merty ar	ass 3.—		and of	- Trans	ing)		-	\$10,125 747 869 8,060 1,638 275 4,630 54 1,118 2,526 20 109 5,411 385 \$35,974	43 67 86 26 79 41 63 32 88 73 50 07 61 57 73

416	MICHIGAN	RAILRO	)AD I	RETUI	RNS.		Dec.	31,
Stationery and print Outside agencies ar Contingencies, Taxes,		g, - -	- - -	- - -	- - -	- - -	\$1,162 1,029 1,352 5,130	57 29
Total,	,	-	-	-	-	-	<b>\$14</b> ,573	78
	RECAPITUI	ATION	OF E	XPEN	SES.			
					Per Cent Expense			
Maintenance of way Maintenance of mo Conducting transpo General expenses, i	tive power as	nd cars,	- - -		21. 13. 46. 18.	65 57 10	\$16,890 10,585 35,974 14,573	53 73
Total operating exp	enses and ta	xes,	_				<b>\$78,024</b>	<b>7</b> 9
Operating expenses Operating expenses for trains earnin Proportion of opera Michigan: Main line,	s and taxes pe g revenue,—	er train 1 -108,517	mile r mile	run, es, for	\$224 38,591	71		
-			- 		0,001	VI	00 501	0.5
Total proporti	on of expens	es for M	Lichig	an,		_	38,591	<del></del>
Percentage of experiments per many Net earnings per transfer per trans	ile of road,	ngs,—89 - -	2.15% - -	• - -	<b>4</b> 8	70 16		
	DESCR	IPTION	OF R	OAD.				
Date when the road	d was opened	for use	betw	een it	ts pres	ent ter	mini:	
		MAIN L	NE.					
From Dundee, M From Addison Franklin, Ohio	Junction, Mi	ch., to						er:
		BRANCH	ES.					
From Lewisburg From Germantov	, Ohio, to Qu vn, Ohio, to l	arries, i Distiller	1887. y, 18	<b>37</b> .				
		MAIN L	INE.					
In Michigan, from In Michigan, from In Ohio, from State tion near Frankli	Addison Jun e line to C., C	ction to	State	e line, Junc-	13	88. 100th 33.00 22.18 56.72	., Miles. 100	ths.
Total length co								

#### BRANCHES.

Euphemia, from Lewisburg, Ohio, to Quarries, Mud Lick, from Germantown, Ohio, to Distillery,	Miles. 100ths. Miles. 100ths. 1.4 1.8
Total length of branches owned by company,	3.20
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated, Aggregate length of tracks in Michigan belonging to this company, computed as single track,	325.10 155.18 14.76 169.94

Gauge of track, 4 feet, 81 inches.

Proprietary or Leased Roads Operated by this Company.

Name, description and length of each:	Total Miles, I	n Michigan,
Under trackage contract,—Wheeling & Lake Erie R. R.: Toledo, Ohio, to Manhattan Junction, Ohio, Toledo, Ann Arbor & North Michigan R'y:	2.10	
Manhattan Junction, Ohio, to Dundee, Michigan,	20.90	17.00
Total,	23.00	17.00
Total miles operated by the company,	348.10	172.18

### Number of Bridges and Trestles in Michigan.

Wooden bridges, number of Wooden trestles, number of,	-	1; 89;	aggregate aggregate	length, length,	feet, feet,	<u>-</u>	144 21,926
Total.	_	90:		_	_	_	22,070

Draw Bridges in Michigan.

How many on your line? None.

### Crossings-Railroad and Highway.

What railroads cross your road at grade in this State and at what locality? Wabash Railroad at Britton.

Lake Shore & Michigan Southern Railroad at Tecumseh, Hanover, Homer, and Allegan.

Michigan Central Railroad at Homer.

Chicago & Grand Trunk Railroad at Battle Creek.

Chicago, Kalamazoo & Saginaw Railroad at Kalamazoo Junction near Richland.

Grand Rapids & Indiana Railroad at Monteith. Battle Creek & Sturgis Railroad at Battle Creek.

What railroads or State, and when	ross yo	our r	oad	either	over	or u	nder	your g	rade in this
Over,— Lake Shore & I Under,— Michigan Cent At what crossing Chicago, Kalar Battle Creek &	ral Ra s are in nazoo	ilrose nterle & Sa	l at . ckir gina	Augus ng and w Rail	ta. derail way, I	ing sy Kalam	witche	s in op	eration?
Number of cross Number of crossi which there are	ings of	f high	hwa way	ys at s at g	grade	in th	is State	ate, e at	187
Number of crossi Over,—1, unde Number of high	ngs of r,—5, vay br	high idges	way:	over eet ab	ove tra	ack,	-	-	6 1
Have safety guar Are your frogs at 174, session lav	nd gua vs of 1	rd ra 1883,	ils b -	locked -	as re	l obst quire -	ruction d by -	ons, act	Yes. Yes.
How are they tree	ited?	Woo	den						
				Statio	ns.				
Number of statio Same in Michiga					-	· -	-	 -	83 36
				Emplo	yés.				
Number persons	regula	rlv e	nplo	oved o	n all :	roads	opera	ted	
by company, ir	ıcludir	ng off	cial	3, _	-	-	-	-	629
Same in Michigan	n,	-	-	-	-	-	-	-	233
Classify your em	ployés	as pe	r fo	llowing	g list:				Number.
Baggagemen,	-	-	_	-	-	_	-	-	8
Baggagemen, Brakemen, <sub>-</sub> Conductors,	-	-	-		-	-	-	-	35
Conductors,	-	-	-		-	-	-	-	22
Engineers,	-	-	-	-	-	-	-	-	31
Laborore	-	-	-	-	-	-	-	-	33 277
Conductors, Engineers, Firemen, Laborers, Shopmen, Yardmen	-	-	-	-	-	-	-	-	81
Yardmen.	-	-	-	-	-	-	-	-	14
Yardmen, Others,	-	-	-	-	-	-	-	-	$1\overline{28}$
		REP	AIRS	AND	RENEW	7ALS.			•
		1	<sup>r</sup> enci	ng in I	Iichiga	ın.			
How many miles	of fen	cing 1	have	you?	-	-	-	-	295
Give the number sides of your which needed:	of mil track	les re in M	quir Iichi	ed to d gan, s	omple ind th	ete fe: 1e cou	nce b inties	oth in	
In Lenawee coun	ty, mi	les,	-	-	-	-	-	-	11.11

### Road Bed and Track.

Number of track sections in Michigan,
Amount of trestle work replaced with earth during the year, —linear feet
Color
Number of locomotives of more than 30 tons weight, exclusive of tender,       23       \$69,000 00         Number of locomotives of 20 to 30 tons weight, exclusive of tender,       2       3,000 00         Total,       25       \$72,000 00         Number of passenger cars—8 wheel, including official cars,       20       38,400 00         Number of express and baggage cars,       3       3,600 00         Number of box freight cars,       593       118,600 00         Number of platform cars,       303       37,875 00         Number of coal cars,       120       18,000 00         Number of conductors' way cars,       8       3,200 00         Total,       1,066       \$294,525 00         Number of passenger-train cars equipped with power brakes,       5         Number of passenger-train cars equipped with power brakes.       23
Number of locomotives of more than 30 tons weight, exclusive of tender,       23       \$69,000 00         Number of locomotives of 20 to 30 tons weight, exclusive of tender,       2       3,000 00         Total,       25       \$72,000 00         Number of passenger cars—8 wheel, including official cars,       20       38,400 00         Number of express and baggage cars,       3       3,600 00         Number of box freight cars,       593       118,600 00         Number of stock cars,       19       2,850 00         Number of platform cars,       303       37,875 00         Number of coal cars,       120       18,000 00         Number of conductors' way cars,       8       3,200 00         Total,       1,066       \$294,525 00         Number of passenger-train cars equipped with power brakes,       5         Number of passenger-train cars equipped with power brakes.       23
weight, exclusive of tender,       23       \$69,000 00         Number of locomotives of 20 to 30 tons weight, exclusive of tender,       2       3,000 00         Total,       25       \$72,000 00         Number of passenger cars—8 wheel, including official cars,       20       38,400 00         Number of express and baggage cars,       3       3,600 00         Number of box freight cars,       593       118,600 00         Number of stock cars,       19       2,850 00         Number of platform cars,       303       37,875 00         Number of coal cars,       120       18,000 00         Number of conductors' way cars,       8       3,200 00         Total,       1,066       \$294,525 00         Number of passenger-train cars equipped with power brakes,       5         Number of passenger-train cars equipped with power brakes.       23
Total,   25
Number of passenger cars—8 wheel, including official cars,       20       38,400 00         Number of express and baggage cars,       3       3,600 00         Number of box freight cars,       593       118,600 00         Number of stock cars,       19       2,850 00         Number of platform cars,       303       37,875 00         Number of coal cars,       120       18,000 00         Number of conductors' way cars,       8       3,200 00         Total,       1,066       \$294,525 00         Number of passenger-train cars equipped with power brakes,       5         Number of passenger-train cars equipped with power brakes.       23
official cars,  Number of express and baggage cars,  Number of box freight cars,  Number of stock cars,  Number of platform cars,  Total,  Number of locomotives equipped with power brakes,  Number of passenger-train cars equipped with power brakes.
Number of locomotives equipped with power brakes, 5  Number of passenger-train cars equipped with power brakes. 23
brakes, 5 Number of passenger-train cars equipped with power brakes. 23
brakes,  None.  What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse automatic air brake, 3 locomotives and 23 cars; Eames vacuum, I locomotive; American steam, 1 locomotive. Are your freight cars being equipped with automatic couplers as required by Act. No. 147, Session Laws of 1885? None built or rebuilt. What pattern or patterns have you adopted for use? None. How are your passenger cars heated? Baker heater.

### MILEAGE, TRAFFIC, ETC.

### Train Mileage.

Miles run by passenger trains during the year,	-	-	-	42,664
Miles run by freight trains during the year,		-	-	49,921
Miles run by mixed trains,		-	-	15,932
Total mileage of trains earning revenue,		_		108,517

## Total mileage of trains earning revenue,

## Passenger Traffic.

	-20-0-		
Number of through passengers carried, Number of local passengers carried,	Numbers and Quantities. 2,586 45,582	Miles.	Rate. Dollars. Cents.
Total number of passengers carried,	48,168		
Total passenger mileage, or passengers carr Average distance traveled by each passen Average amount received from each passe Average rate of fare per mile for through Average rate of fare per mile for all passes	ger,	891 - - - -	,241 18.50 \$0 ,47.000 02.670 02.570 02.580
Freight Trat	fic.		

Number of tons of through freight carried, Number of tons of local freight carried,	and Quantities. 48,496 60,137	Miles.	Dollars. Cents.
Total tons of freight carried,	108,633		

Total mileage of through freight,	_	_	_	3,173,720
Total mileage of local freight,	_	_	_	5,260,833

Total freight mileage, or tons carried one mile, 8,434,553

Average ton haul for through freight		_	_	65.4		
Average ton haul for local freight,	_	-	_	<b>87.4</b>		
Average ton haul for all freight,	_	-	-	77.6		
Average amount received for each ton				_	<b>\$</b> 0	58.000
Average rate per ton per mile, receive	$\mathbf{d}$ for	thro	ugh fr	eight,		00.680
Average rate per ton per mile, receive	$\mathbf{d}$ for	local	freigh	ıt, _		00.790
Average rate per ton per mile, receive	d for	all fr	eight,	-		00.750

### Freight Forwarded at Michigan Stations.

(frain,						Tons. 2,981
	-	-	-	-	-	
Flour,	-	-	-	_	-	366
Provisions (beef, pork, lard, etc.),	_	-	_	_	_	142
Animals.	_	_	_	_	_	1,193
Other agricultural products,						1,615
o moi abilourarai producto,	-	-	-	-	-	
Lumber and forest products,	-	_	_	_	-	5,132
Coal,	-	_	-	-	-	149

1889.] CINCINNATI, JACI	kson &	MAC	KINA	W RA	ILRO	AD CO.	421
							Tons.
Flaster, lime and cement,		-	_•	-	_	_	18
Salt,	. <u>-</u>	-	-	_	_	-	141
Petroleum,	_ •	-	_	_	-	-	35
Railroad iron, iron and steel	rails,	-	-	-	_	-	<b>28</b>
		-	-	-	-	-	65
Stone, brick and sand,				-		-	680
Manufactures,—articles ship	ped fro	m poi	nt of p	produ	ction,	-	17
Merchandise and other artic	les not	$\mathbf{enum}$	erated	abov	e, _	-	1,599
						-	1.1.1.02
Total forwarded,	-	-	-	-	7	-	14,161
Tonnage of A	rticles T	ransp	orted.—	-Entir	e Road	i.	
						Tons.	Per Cent.
Grain,	-	-	-	-	-	5,312	4.97
Flour,		-	-	-	-	652	.60
Provisions (beef, pork, lard,	etc.),	-	-	_	-	319	.29
Animals,	-	-	-	-	-	3,036	2.79
Other agricultural products,	-	-	-	-	-	4,155	3.82
Lumber and forest products	, -	-	-	_	-	13,317	12.26
Coal,	-	-	-	-	-	60,659	55.83
Plaster, lime and cement,	-	-	-	-	-	209	.19
Salt,	-	-	-	-	-	413	.38
Petroleum,		-	-	-	-	1,102	1.01
Railroad iron, iron and steel	rails,	-	-	-	-	55	.04
Pig and bloom iron,	-	-	-	-	-	9,649	8.88
Other iron and castings,		-	-	-	-	1,434	1.32
Stone, brick and sand,	2	-	-	-	-	2,441	2.21
Manufactures,—articles ship	ped fro	m poi	$\mathbf{nt}$ of $j$	$\mathbf{prod}\mathbf{v}$	ıc-		
tion,	_	-	-		-	65	.06
Merchandise and other artic	les not	enum	erated	abov	т <del>е</del> ,	5,815	5.35
					-		
Total tons carried, _	-	-	-	-	-	108,633	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company; fixed sum per menth; general express business; freight taken at depots.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 156 miles; Western Union Telegraph Company. 190 miles; Edison Mutual Telegraph Company.

### REPORT OF ACCIDENTS FOR MICHIGAN DURING RECEIVER'S PERIOD.

#### KILLED.

December 3, T. J. Edwards, citizen, Marshall. Crossing track in front of passenger train; company not responsible.

December 8, Robert Dunning, Fisk. Walking on track, deaf mute; company not responsible.

#### INJURED.

November 27, Ed. Welch, brakeman, C. & St. L. Junction. Coupling; carelessness.

December 5, Geo. Goodman, fireman, Addison. Train started and pushed engine over him while cleaning fire-box; accidental.

December 29, Wm. Crider, conductor, Hudson. Stepping off engine; carelessness.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Cause of Accident,		Killed.		Injured,			
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	
ollisions							
oudling cars		1	1	1	1		
erailmenta			i	1	1		
STUDE LLOW PLEATUR	l	l	1				
rogs		1	!		l		
etting on and off trains			:		1		
ghway crossings							
18Cellaneous		l	!		1 1		
verhead obstructions							
respassers on trains							
respassers on tracks			2				
		i	İ	1	Í		
				i		-	
Total			2	1	8		

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the receiver's period, Number of persons injured during the receiver's period,	-	$\begin{matrix} 2 \\ 13 \end{matrix}$
Number of casualties purely accidental,	_	1
Number resulting from lack of caution, carelessness,	or	
misconduct,	-	4
Persons killed or injured while intoxicated,	_	
Trespassers and tramps killed or injured,	_	2
Suicides,	_	

### CLASSIFICATION OF EMPLOYES.

#### KILLED OB INJURED IN MICHIGAN.

Employés.		Injured.	Total.		
Baggagemen					
Brakemen. Conductors. Engineers.		1	i		
Firemen. Leborers		1	1		
Shopmen Yardmen Not classified above					
Total		8	8		

STATE OF OHIO, COUNTY OF LUCAS, Ss.

F. B. Drake, General Manager, and F. S. Anable, Comptroller, of the Cincinnati, Jackson & Mackinaw Railroad Company, Walston H. Brown, Receiver, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

F. B. DRAKE. F. S. ANABLE.

Subscribed and sworn to before me this 19th day of May, A. D. 1890. B. A. HAYES, Notary Public.

### ANNUAL REPORT

#### OF THE

### CHICAGO & WEST MICHIGAN RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed May 21, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.

Vice President and General Manager, J. B. MULLIKEN, Muskegon, Mich.

Secretary and Treasurer, CHARLES MERRIAM, Boston, Mass.

Auditor, U. B. ROGERS, Grand Rapids, Mich.

General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.

Assistant Superintendent, P. CONLEY, Holland, Mich.

Chief Engineer, J. J. McVEAN, Grand Rapids, Mich.

Superintendent of Telegraph, F. O. NYE, Holland, Mich.

Assistant Treasurer, J. E. HOWARD, Grand Rapids, Mich.

General Passenger and Ticket Agent, J. F. REEKIE, Detroit, Mich.

Traffic Manager, W. A. CARPENTER, Muskegon, Mich.

#### DIRECTORS.

H. H. HUNNEWELL, Boston, Mass.
C. F. Adams, Boston, Mass.
G. O. SHATTUCK, Boston, Mass.
CHAS. MERRIAM, Boston, Mass.
N. Thayer, Boston, Mass.
J. H. Blake, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
A. H. Hardy, Boston, Mass.
J. B. MULLIKEN, Muskegon, Mich.

Terms expire April 17, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or	r articles of association filed,—Oct	ober 1	., 1881	L.				
Number of stockh	olders at date of last election,	-	-	-	-	-	-	603
Number of stockh	olders in Michigan at same date,	-	-	-	-	-	-	6
Amount of full pa	id stock held in Michigan at same	date,	-		-	-	-	<b>\$9,600</b>
Date of annual me	eting of stockholders,—Third We	dnesd	ay in	Apr	iļ.			
Fiscal year of com	pany ends,—December 31.							
General offices of	the company are located at Bosto	n, Ma	ss., G	rand	Rap	oids,	and	Mus-
kegon, Mich.								

### GENERAL EXHIBIT.

U.E	YA TATATA	111111111111111111111111111111111111111	HID.	LA.			
Total income,	_	-	_	Di	EBIT.	CRE \$1,374,833	
Total expenses, including taxe	es,	_		<b>\$1</b> ,018, <b>465</b>	79		
Net income,	-	-	-			<b>\$</b> 356,367	<b>51</b>
Interest on funded debt,	-	-	-	<b>\$</b> 237,846	60		_
Balance applicable to dividend	ds,	-	-	<u> </u>		<b>\$</b> 118,520	91
Dividends declared, 2%,	-	-	-	<b>\$</b> 123,004	00		
Balance for the year,	-	-	-	<b>\$4,483</b>	09		
Balance (profit and loss) last Items not included in above, a	-		-			\$234,026	08
Miscellaneous interest,	-		-			6,945	61
Balance forward to next y	ear,	-	-	<b>\$236,4</b> 88	60		
				\$240,971	69	\$240,971	69
ANALYS	is of	CAP	TAL	STOCK.			
Amount authorized by charter Par value of shares, No. of shares issued,	r or a	rticles \$100 67,8	00	association,	-	<b>\$</b> 6,800,000	00
Amount paid in on common, Amount paid in on shares not		-	- -	<b>\$</b> 6,733,200 63,600			
Total amount paid in, as per l	oooks	of the	o cor	npany,		6,796,800	00
Paid in per mile of road owned —408.40 miles,	by co	mpan -	y, -	<b>\$</b> 16,642	51		

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.
C. & M. L. S. R. R. Co., 1st mortgage bonds on 125.9 miles of road—New Buffalo to Muske- gon—dated September 1, 1889. G. R., N. & L. S. R. Co., 1st mortgage bonds	84	September 1, 1889	New York	<b>V</b> oid.
on 36 miles of road—Grand Rapids to Ne- waygo—dated July 1, 1871 G. R., N. & L. S. R. R. Co., second division, 1st	8%	July 1, 1891	New York	\$576,000 00
mortgage bonds on 10 miles of road—Newaygo to White Cloud—dated June 1, 1875 C. & W. M. B'y Co., mortgage on 408.4 of con-	75	June 1, 1905	New York	24,000 00
solidated line, subject to the above mort- gages, dated December 1, 1881		December 1, 1921	Boston	3,646,000 00
Total funded debt	<u>'                                      </u>		<u> </u>	\$4,246,000 00

### UNFUNDED DEBT.

For What Incurred.	Is the Sa	Amount.					
For construction.  For equipment.  For real estate.  For renewals  For miscellaneous.  For current balances.	\$1,194,00	9 28					
Total unfunded debt						\$1,194,00	9 28
	RECA	PITUL	ATION				
Total funded debt, Total unfunded debt,		-	-		-	<b>\$4,246,000</b> 1,19 <b>4,009</b>	
Total debt liabilitie	<b>5,</b> _	_	_			\$5,440,009	<b>2</b> 8
Amount of debt liabilities	es per mil	e of ro	ad,—	-408.40 mile	8,	13,320	30
Total amount of sto	ck and del	bt,	_		_	<b>\$</b> 12,236,809	<u>28</u>
Stock and debt per mile		•	0 mil	es, _	-	29,962	
_ GEN	VERAL BA	T.ANO	TE Q11	TET De			
GEN	TERVALI DA	IIIANU	E SH	EEI.—Dk.			
Construction account, Equipment account,		-	-	<b>\$</b> 9,266,307 1,136,499	53	<b>\$</b> 10,402,807	
Other investments:						\$10, <del>1</del> 02,001	22
C. &. W. M. R'y Co. s Muskegon Lake R. R Muskegon Car Co.	. Co. stock	· _	- -	\$583,021 33,600 15,904	00 98		
West Michigan Park	Associatio	n bon	as,	6,000		638,526	28
Cash items: Cash, Bills receivable, Due from agents,		-	-	\$32,170 10,000 17,535	00		
Other assets: Materials and supplie	 98, · <sub>-</sub>	_	-	\$45,093		59,705	61
Debit balances from individuals, Subscribers to blocks,	companie	s and - -	-	816,350 510,815	11		
						1,372,258	77
Total,		-	-			<b>\$</b> 12,473,297	88

# GENERAL BALANCE SHEET.—Cr.

Capital stock, - Funded debt, -	-	-	-	- -	<b>\$</b> 6,796,800 <b>4</b> ,246,000	00	<b>#11</b> 040 000	ω.
Unfunded debt:							<b>\$11,042,800</b>	w
Interest unpaid,	_	_	_	_	<b>\$44</b> ,766	67		
Notes payable,	_	_	_	_	91,000			
Vouchers and accoun	ts,	_	_	_	184,099			
Other liabilities:	-				-			
Advance payments of	f sub	script	ions,	_	16,625			
Receipts for blocks,	_	_	-	-	824,600			
Net traffic balances d	ue ot	her co	mpar	ies,	31,522			
Miscellaneous, C. & M. L. S. R. R.	_	-	-	_	395	61		
C. & M. L. S. R. R.	8 %	bond	due,	$\mathbf{not}$				
presented, -	-	-	-	-	1,000	00		
<b>5</b> 0. 11							1,194,009	28
Profit and loss or incom	ne ac	$\mathbf{count}$	s,	-			236,488	60
Total,	-	-	-	-			<b>\$</b> 12,473,297	88
	Purcl	rased t	nı Pre	sent Co	mpany.			
			-					
When purchased,—Oct	ober	1, 188	31.		a •		<b>a</b> 0 270 400	0.4
Original cost to present	t com	ipany,	, or r	oad an	a equipmen	lt,	<b>\$</b> 8,578,430	
Amount expended since Amount expended since	e pur	cnase	, accc	ount of	constructi	on,	1,228,864 595,511	
Amount expended since	e pur	спаве,	, acco	ount or	edmbmen	, -	999,911	"
Total cost to date of	of rep	ort,	_	-		-	\$10,402,807	22
Average cost per mile o	f roac	d. not	inclu	iding i	sidings. $-40$	8.4		
miles,	-	-	-	-		-	25,472	10
Proportion of cost for	Mich	igan,	-	-		-	9,525,038	<b>52</b>
CHARGES AND	CRED	its i	Y PR	OPER'	TY DURING	TF	HE YEAR.	
		M	IAIN I	LINE.				
New bridges, Retiring bonds, Right of way					<b>\$23,968</b>	13		
Retiring bonds	-	-	-	-	23,509	75		
Right of way,	-	-	-	-	50	00		
respect of way,	-	-	-	-				
Total,	-	-	-	-			<b>\$47</b> ,52 <b>7</b>	88
m . 1								
Total charges to prope	rtv a	coun	tass	bove.	\$47.527	88		
Total charges to proper Property sold and cred	rty ac ited,	coun		bove,	\$47,527 8,521			

## ANALYSIS OF EARNINGS.

### PASSENGER EARNINGS.

	P	ASSENG!	ER EA	RNIN	38.			
Main line and bran Local fares, Through fares,	ches:	-	-	-	\$487,980 7,452			
Total passenge	_	-	-	<del>.</del>	<b>\$</b> 495,433			
Express and bagg	gage, _	-	-	-	19,505			٠
Mails, Other sources,		-	-	-	39,994 1,200			
Total passenge	r departi	nent ea	rning	8,			<b>\$</b> 556,133	<b>4</b> 3
Proportion for M Per train mile, Per mile of road,		-	-	-	<b>\$</b> 509,207	83		
I er mile of road,	-	-	-	-	1,001	17	•	
		FREIGH'	T EAR	NING	3.			
Main line and bran Local traffic, Through traffic,		-	-	-	\$806,786 11,779			
Inrough mame,	-, -	-	-	-	11,110			
Total traffic,		-	-	-	<b>\$</b> 818,565	16	•	
Other sources,		` -	-	-	134	71		
Total freight d	epartme	nt earni	ngs,			_	818,699	87
Proportion for M Per train mile,	lichigan,	. <del>-</del>	-	-	<b>\$</b> 749,619	56 63		
Per mile of road,	-	-	-	-	2,004	65		
Total transport	tation ear	rnings,		-		-	<b>\$</b> 1,37 <b>4</b> ,833	30
Transportation ear Transportation ea Miscellaneous rec account, other th follows:	rnings eipts f	per trai	in m perat	ile, ing	_ <b>\$3,363</b> _ 1	45 17		
Miscellaneous earn	ings, <sub>-</sub>	-	-	-		-	1,200	00
Total earnings	from op	eration	of ros	ad,	<u>.</u> .	-	<b>\$</b> 1,376,033	30
Total earnings per Total earnings per Proportion of taxab Total taxable earni	train mil le earnin	le, gs for M	Iichig	an, in	1,259,926	17 28		
Michigan, Income other than		_	-	-	3,366	39	6,945	61
Total income f		_		-	<u>.</u> .	-	<b>\$1,381,778</b>	
Proportion of incor	ne for M	ichigan	٠,	_			1,265,187	09

### ANALYSIS OF EXPENSES.

### Class 1.—Maintenance of Way and Buildings.

	-					4	, arrang	••		
Repairs of road v	vav an	d trac	k.	_	_	_	_		<b>\$132,618</b>	55
Renewals of rails			,	_	-	-	-	-	3,087	75
Renewals of ties,		-	- 1	-	-	-	-	-	55,747	72
Denoise of beide		:E	- ' 		<b>i</b>			-	97 694	41
Repairs of bridge	es, inci	name	cuiv	erts	ina ce	រណាម ខែ	zuarus,	-	37,634	41
Repairs of fences	, road	cross	ings, i	and s	igns,		-	-	22,649	13
Repairs of build	ings,		-	-	-	-	-	-	20,035	39
									<del></del>	
Total,	-	-	-		_	-	_	_	<b>\$</b> 271,772	96
C	LASS 2	-Main	tenano	ce of .	Motive	Powe	er and C	ars.		
				•			-		<b>A</b> 40 <b>E</b> 00	40
Repairs of locom			-	-	-	-	-	-	<b>\$</b> 63,733	
Repairs of passer	iger ca	rs,	-	-	-	-	-	_	42,533	
Repairs of freigh	t cars,		-	-	_	_	-	_	94,568	23
-										
Total,	-	_	_	_	_	_	_	_	<b>\$200</b> ,835	02
•									- /	
	Cr	ASS 3	-Cond	ucting	Tran	sporte	ıtion.			
				_	•	-				
Fuel for locomot	ives,	-	-	-	_	-	_	-	<b>\$</b> 107,602	
Water supply,	-	_	_	-	_	_	-	-	7,202	04
Oil and waste.	_	_	_	_	_	_	_	_	8,259	12
Locomotive servi	ice.								99,903	24
Passanger train	ervice	-	-	-	•	-	-	-	30,433	70
Passongor train	mphlio	, - .a	-	-	-	-	-	-	2,379	78
Water supply, Oil and waste, Locomotive servi Passenger train a Passenger train a Mileage of passer Freight train ser	anbhue	, ,	-	-	-	-	-	-	2,417	60
Mineage or passer	nger ce	irs,	-	-	-	-	-	-	40.700	20
Freight train ser Freight train sur Mileage of freigh	vice,	-	-	-	-	-			40,702	
Freight train sur	plies,	-	-	-	-	-	( cred	-	515	10
Mileage of freigh	ıt cars,	-	-	-	-		( cred	it)	1,887	81
Tologram h ownon	ana / w	0 1 TO \$ 0 T	2000	000	~~~~			-	26,003	
Damage and loss Damages to prop	of fre	ight a	nd b	agga	ge,	_	-	_	717	61
Damages to prop	ertv aı	nd cat	tle.	-	_	_	_	_	2,003	13
Personal injuries	ι		,		_	-			4,190	
Personal injuries Agents and static	n serv	ice	-	_	_	-	_	_	101,010	
Station supplies,	JAL BULV	100,	-	-			•		5,319	
Station supplies,		-	-	-	-	-	-	-	0,010	
Total,									<b>\$4</b> 36,771	15
10001, -	-	-	-	-	-	-	-	-	<del>4200</del> ,711	10
		Ct.AS	s 4	Gener	al Exp	on sos				
					_					
Salaries of the g	eneral	office	rs of t	the c	ompai	ıy,	-	-	<b>\$</b> 28,912	
Salaries of clerks	s in ger	aeral :	offices	3,	_	-	_	_	28,712	01
Law expenses,	-	_	_	_	-	_	_	_	5,598	41
Insurance,	_	_	_	_	_	_	_	_	5,598 <b>4,183</b>	82
Insurance, Stationery and p Outside agencies	rinting	r	_	_	-	_	-	-	12,597	59
Outside agencies	and ed	Iverti	sin <i>o</i>	•	-	-	(cred	it.)	7,308	87
Contingencies	and or	- 4 - 01 011	·····8,	-	-	-	icrea	,	7,277	71
Contingencies, Taxes,	-	-	-	-	-	-	-	-	29,051	
Taxes,	-	-	-	-	-	•	-	-	25,001	OI
m <sub>o</sub> ₄-1									@100 00¢	<u>ee</u>
Total, -	-	-	-	-	-		-	•	<b>\$</b> 109,086	00

### RECAPITULATION OF EXPENSES.

Maintenance of way and buildings Maintenance of motive power and Conducting transportation, - General expenses, including taxes,	cars,	- - -	- 19 42		\$271,772 200,835 436,771 109,086	02 15
Total operating expenses and	taxes,	-	- 100	.00	<b>\$1,018,465</b>	79
Operating expenses and taxes per respectively.  Operating expenses and taxes per trains earning revenue,—1,1  Proportion of operating expenses a Michigan:						
Main line,	-	-	932,529	<b>62</b>		
Total proportion of expenses i	for Micl	higan,	-	-	932,529	<b>62</b>
Percentage of expenses to earning Net earnings per mile of road, Net earnings per train mile,	s,—74.0 - -	8%. - -	872	59 30		

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

### MAIN LINE.

From Grand Rapids, Mich., to LaCrosse, Indiana, December 3, 1883.

### BRANCHES.

From Holland to Pentwater, January 1, 1872.
From Allegan to Muskegon, July 1, 1870.
From Grand Rapids to White Cloud, September 24, 1875.
From Muskegon to Grand Rapids, July 21, 1873.
From Mears to Hart, July 1, 1880.

### MAIN LINE.

In Michigan, from Indiana State lin In Indiana, from Michigan State lin	, -	174.28 34.46	files. 100ths.			
. Total length completed,		-	-	-		208.74
BRA	NCHI	28.				
From Holland to White Cloud, From Holland to Allegan,	-	-	-	-	70.00 23.00	
From Fruitport to Muskegon, From Kirk's Junction to Pickands, From Muskegon to Port Sherman,	-	-	-	-	10.00 3.50 6.00	

Miles 100th a Miles 1	004b
From Big Rapids Junction to Big Rapids,  From Mears to Hart,  From White Cloud to West Troy,  From West Troy Junction to Baldwin,  From Lilley Junction to Sissons,  Miles. 100th s. Miles. 1  51.63  17.86  17.86  From Lilley Junction to Sissons,  2.37	AVCDS
Total length of branches owned by company, _ · _ 199.6	6
Total length of branches owned by company in Michigan, 199.66  Total length of road belonging to this company, 408.4	0
Total length of road belonging to this company in Michigan,  Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,  112.11	_
Aggregate length of tracks in Michigan belonging to this company computed as single track, 486.0	5
Gauge of track, 4 feet 8½ inches.	- ,
Total miles operated by the company, Total Miles. In Mich. 408.40 373	igan. 3.94
Number of Bridges and Trestles in Michigan.	
Stone bridges, number of 1; aggregate length feet, 1; Combination bridges, number of 2; aggregate length, feet,	505 026 675 534
Total,	740
Draw Bridges in Michigan.	
How many on your line? Where located, when built and length of draw span.	5
1, St. Joseph, built in 1889; 237 feet. 2, Grand Rapids, built in 1882; 162 feet. 3, New Richmond, built in 1882; 60 feet.	

Approaches straight or curved?

Numbers 1, 2 and 3, curves; number 4 and 5, straight.

Do you require all trains to come to full stop before crossing a draw, and how are they signaled?

Yes, and flagged by watchmen.

### Crossings-Railroad and Highway.

Crossings—Kauroad and Highway.	
What railroads cross your road at grade in this State, and at what local Grand Rapids & Indiana Railroad at and near Grand Rapids. Detroit, Grand Haven & Milwaukee Railroad at and near Grand Ray Lake Shore & Michigan Southern Railroad near Grandville. Toledo, Saginaw & Muskegon Railroad at Sparta. Muskegon, Grand Rapids & Indiana Railroad near Muskegon, twice Toledo, Saginaw & Muskegon Railroad near Muskegon. Toledo & South Haven Railroad at Hartford. Michigan Central Railroad at Grand Junction.	pids.
What railroads cross your road either over or under your grade in	this
State, and where?	
Under,— Michigan Control Beilmed 11 miles and at New Buffel	
Michigan Central Railroad 1½ miles south of New Buffalo.	0
At what crossings are interlocking and derailing switches in operation Flint & Pere Marquette Railroad at Baldwin.	
Toledo & South Haven Railroad at Hartford.	
Toledo, Saginaw & Muskegon Railway at Sparta.	
Toledo, Saginaw & Muskegon Railway at Muskegon.	
What pattern or patterns have you adopted? Gravitt.	
Number of crossings of highways at grade in this State,	<b>485</b>
Number of crossings of highways at grade in this State	2.4
at which there are gates or flagmen,	24
Number of crossings at which there are electric or automatic signals,	4
What pattern or patterns in use? Mills & McDonald Pneumatic.	*
Number of crossings of highways over or under railroad:	
Over,—9. Under,—11,	20
Number of highway bridges 18 feet above track,	8
	one.
	$\mathbf{Yes.}$
Are your frogs and guard rails blocked as required by act	<b>37</b>
174, session laws 1883?  How are they treated? General inspection every month.	Yes.
Stations.	
Number of stations on whole line, Same in Michigan,	109 103
$Employ\'es.$	
Number of passang regularly employed on all reads	
Number of persons regularly employed on all roads operated by company, including officials,	,229
	,188
	,

Classify your employés as per following list:

1889.]	CHICAGO &	WEST	MICHIG	AN RAILWA	AY OO.	433
_				·		Number.
Baggagemen,		-			-	34
Brakemen,		-			<del>-</del>	77
Conductors,		_			-	42
Engineers,		_			-	56
Firemen,		_			_	59
		-				384
Shopmen,	- -	-		•	-	238
Yardmen,		-			-	35
		-			-	304
Others,		-			-	904
	F	EPAIRS	AND REN	EWALS.		•
		Fencin	g in Mich	igan.		
How many m					-	782
Give the num	ber of miles	require	d to cor	nplete fence	both	
sides of you	ır track, in M	[ichigan	and the	counties in	which	
needed:			,			
					44	
Lake and Oce	ana counties	, -			44	
m , 1 '1						4.4
Total mil	es required,	-			-	44
		Road 1	Bed and T	rack.		
			_			70
Number of tre						73
Average lengt					- 5.5	
Average num	ber of men ir	ı each se	ection ga	ng,	-	3
Number of ne					-	202,107
Number of ne					_	188,500
Average num					_	495
New rails put		os por n	1110 01 10	uu,		100
		. 010	•		•	
Steel (10118)	2,000) miles	3, — <u>212.</u>				212
Total miles of	track laid w	ith new	raiis, _		-	212
		Bridge	es and Cul	verts.		
		•				
Amount of tre		placed v	vith earth	a during the	year,	
linear fee	ot, - •		_			2,365
New bridges	built during	the year	,—numb	er, .		7
					. 7	
With sewer p New bridges	built during	the vear	_			13
			<u> </u>		<del> </del>	
Loca	tion.		Kind,	Material,	Month Built,	Feet in Length.
		_			ļ	
O. T. 1		502		Di	A & G	700
St. Joseph Benton Harbor		Pile		Pine	Aug. & Bept	766 161
Benton Harbor	. <b></b>	Pile		Pine	July	64 370
HollandGrandville		Pile		Pine	July	16
Muskegon		Pile		Pine	August	45 218
Muskegon Whitehall		Pile		Pine	.   September	316
Whitehall	<b></b>	Pile	- <b></b>	Pine	Aug. & Sept	267
Shelby				Pine	October December	17 105
Newaygo		Pile	trase	Pine	December	20 72
Montague		Draw	urass	Pine		12
				!	<u> </u>	
Total						2,487
~ V WALL				· · ·		

### ROLLING STOCK.

	Number.	Present Estimated Value.
Number of locomotives of more than 30 tons weight, exclusive of tender,	35	<b>\$</b> 105,000 00
Number of locomotives of 20 to 30 tons weight,		·
exclusive of tender,  Number of locomotives of 10 to 20 tons weight,	12	30,000 00
exclusive of tender,	2	2,000 00
Total,	49	<b>\$</b> 137,000 00
Number of passenger cars—8-wheel, including	90	70 000 00
official cars,	39 <b>2</b> 2	78,000 00 22,000 00
Number of express and baggage cars,	824	
Number of box freight cars,	5	185,400 00
Number of stock cars,	1,005	1,000 00 150,750 00
Number of platform cars, Number of conductors' way cars,	21	4,200 00
Other cars,	$2\overline{17}$	51,150 00
Log cars, 6; tool cars, 2; pile driver, 1; snow	411	01,100 00
plows, 4; excavators, 2; painters' car, 1; carpenters' car, 1; *W. M. E. & L. L., 200.		
		<del></del>
Total,	2,133	<b>\$</b> 629,500 00
Number of locomotives equipped with power		
brakes,	<b>4</b> 5	
Number of passenger-train cars equipped with power brakes,	61	
Number of freight cars equipped with power		
_brakes,	None.	
What patterns of power brakes have you in use, at tives and cars with each? Westinghouse automat 25, cars 61; American steam brake locomotives 20	ic air bral	er of locomo- ke locomotives
Are your freight cars being equipped with automat	ic connle	herimor se sr
by Act No. 147, Session Laws of 1885? No. How are your passenger cars heated? By steam from the state of the		
MILEAGE, TRAFFIC, ETC.		
Train Mileage.		
Miles run by passenger trains during the year, Miles run by freight trains during the year,		669,103 500,908
Total mileage of trains earning revenue,		1,170,011
Passenger Traffic.		
Numbers and Quantities.	Miles.	Rate. Dols. Cents.
		Dois. Cents.
Number of through passengers carried, 4,462 Number of local passengers carried, 674,608		
Total number of passengers carried, 679,070		

<sup>\*</sup>These West Michigan Equipment Co. & Lumber Line cars are operated by the C. & W. M. R'y Co. under a lease.

					2411		Rate. ars. Cents.
Total passenger mileage, or	r passeng	ers car	ried c	ne	Mil		ars. Cenus.
mile,	,- ,-	`-	-	2	22,849,		
Average distance traveled Average amount received if Average rate of fare per manage rate of fare per	from each ile for th ile for lo	n passe rough cal pas	nger, passe senge	ers,	-	i.55 - <b>\$</b> -	073.00 01.38 02.99 02.18
	Freig	ht Traf	lc.				
		_	Num	bers	M:1-	s. Dolla	Rate.
Number of tons of through Number of tons of local fr	freight car	arried,	-	9,184 4,708	M. Lie	в. роца	rs. Cents.
Total tons of freight o	arried,	-	88	3,892			
Total mileage of through f Total mileage of local frei	reight, ght,	-	-	-		274,455 166,582	
Total freight mileage, or to	ona carri	aro be	mila		58.4	41,037	
Average ton haul for throu	ons carri	ht.	шпе,	-	00,5	139	
Average ton haul for local	freight.	,	-	-	_	65	
Average ton haul for all fr		_			_	66	
	0 ,		-	_			
Average amount received fi Average rate per ton per n Average rate per ton per n Average rate per ton per n	or each to nile, rece nile, rece	ived fo ived fo	r thro r loca	l freig	zht,		92.630 00.924 01.586 01.406
Average rate per ton per n Average rate per ton per n Average rate per ton per n	or each to nile, rece nile, rece	ived fo ived fo ived fo	r thro r loca r all f	l freig reigh	ght, t,		00.924 01.586 01.406
Average rate per ton per n Average rate per ton per n Average rate per ton per n Freight	for each f nile, rece nile, rece nile, rece	ived fo ived fo ived fo	r thro r loca r all f	l freig reigh	ght, t,		00.924 01.586 01.406
Average rate per ton per n Average rate per ton per n Average rate per ton per n Freight Grain,	for each f nile, rece nile, rece nile, rece	ived fo ived fo ived fo	r thro r loca r all f	l freig reigh	ght, t,		00.924 01.586 01.406 Tons. 15,238
Average rate per ton per n  Average rate per ton per n  Average rate per ton per n  Freight  Grain,  Flour,	for each finile, recenile,	ived fo ived fo ived fo	r thro r loca r all f	l freig reigh	ght, t,		00.924 01.586 01.406 Tons. 15,238 9,231
Average rate per ton per n Average rate per ton per n Average rate per ton per n  Freight  Grain, Flour, Provisions (beef, pork, lar	for each finile, recenile,	ived fo ived fo ived fo	r thro r loca r all f	l freig reigh	ght, t,		00.924 01.586 01.406 Tons. 15,238 9,231 2,584
Average rate per ton per n Average rate per ton per n Average rate per ton per n  Freight  Grain, Flour, Provisions (beef, pork, lar Animals,	for each finile, recenile,	ived fo ived fo ived fo	r thro r loca r all f	l freig reigh	ght, t,		00.924 01.586 01.406 Tons. 15,238 9,231 2,584 3,723
Average rate per ton per n Average rate per ton per n Average rate per ton per n  Freight  Grain, Flour, Provisions (beef, pork, lar Animals, Other agricultural product	for each finile, recenile,	ived fo ived fo ived fo	r thro r loca r all f	l freig reigh	ght, t,		Tons. 15,238 9,231 2,584 3,723 36,042
Average rate per ton per n Average rate per ton per n Average rate per ton per n  Freight  Grain, Flour, Provisions (beef, pork, lar Animals,	for each finile, recenile,	ived fo ived fo ived fo	r thro r loca r all f	l freig reigh	ght, t,		00.924 01.586 01.406 Tons. 15,238 9,231 2,584 3,723 36,042 541,366
Average rate per ton per n Average rate per ton per n Average rate per ton per n  Freight  Grain, Flour, Provisions (beef, pork, lar Animals, Other agricultural product Lumber and forest product Coal,	for each to nile, recentile, recentile, recentile, recentile, recentile, recentile, recentile, recentile, etc.),	ived fo ived fo ived fo	r thro r loca r all f	l freig reigh	ght, t,		00.924 01.586 01.406 Tons. 15,238 9,231 2,584 3,723 36,042 541,366 27,984 22,289
Average rate per ton per n Average rate per ton per n Average rate per ton per n Freight  Grain, Flour, Provisions (beef, pork, lar Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement,	for each to nile, recenile,  ived fo ived fo ived fo d at Mi	r thro r loca r all f	l freigh reigh Statio	ght, t,		00.924 01.586 01.406 Tons. 15,238 9,231 2,584 3,723 36,042 541,366 27,984 22,289	
Average rate per ton per n Average rate per ton per n Average rate per ton per n  Freight  Grain, Flour, Provisions (beef, pork, lar Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement, Salt, Petroleum,	for each to nile, recentile, recentile, recentile, recentile, recentile, recentile, recentile, etc.),	ived fo ived fo ived fo d at Mia	r thro r loca r all f	l freigh reigh Statio	ght, t,		00.924 01.586 01.406 Tons. 15,238 9,231 2,584 3,723 36,042 541,366 27,984
Average rate per ton per n Average rate per ton per n Average rate per ton per n  Freight  Grain, Flour, Provisions (beef, pork, lar Animals, Other agricultural product Lumber and forest product Coal, Plaster, lime and cement, Salt, Petroleum, Railroad iron, iron and ste	for each to nile, recentile, recentile, recentile, recentile, recentile, recentile, recentile, etc.),	ived fo ived fo ived fo d at Mia	r thro r loca r all f	l freigh reigh Statio	ght, t,		Tons. 15,238 9,231 2,584 3,723 36,042 541,366 27,984 22,289 1,732 3,058 11,117
Average rate per ton per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per ton per naverage rate per naverage rate per ton per naverage rate per naverage	for each finile, recenile, recenile, recenile, recenile, recenile, recenile, recenile, etc.),	ived fo ived fo ived fo d at Mia	r thro r loca r all f	l freigh reigh Statio	ght, t,		Tons. 15,238 9,231 2,584 3,723 36,042 541,366 27,984 22,289 1,732 3,058 11,117 16,870
Average rate per ton per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per ton per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per naverage rate per ton per naverage rate per ton per naverage rate per ton per naverage rate per ton per naverage rate per ton per naverage rate per ton per naverage rate per ton per naverage rate per ton per naverage rate per naverage rate per naverage rate per ton per naverage rate per	for each finile, recenile, recenile, recenile, recenile, recenile, recenile, recenile, etc.),	ived fo ived fo ived fo d at Mia	r thro r loca r all f	l freigh reigh Statio	ght, t,		Tons. 15,238 9,231 2,584 3,723 36,042 541,366 27,984 22,289 1,732 3,058 11,117 16,870 8,879
Average rate per ton per naverage rate p	for each finile, recenile, recenile, recenile, recenile, recenile, recenile, recenile, recenile, recenile, etc.),	ived fo ived fo ived fo d at Mid	r thro r loca r all i chigan	l freigh reigh	ght,  t,  ns.		Tons. 15,238 9,231 2,584 3,723 36,042 541,366 27,984 22,289 1,732 3,058 11,117 16,870 8,879 27,581
Average rate per ton per naverage rate per naver	for each finile, recenile, recenile, recenile, recenile, recenile, recenile, etc.),  ts,  ts,  cel rails,	ived fo ived fo ived fo d at Mia	r thror locar locar all f	l freigh reigh Statio	etion,		Tons. 15,238 9,231 2,584 3,723 36,042 541,366 27,984 22,289 1,732 3,058 11,117 16,870 8,879 27,581 21,169
Average rate per ton per naverage rate p	for each finile, recenile, recenile, recenile, recenile, recenile, recenile, etc.),  ts,  ts,  cel rails,	ived fo ived fo ived fo d at Mia	r thror locar locar all f	l freigh reigh Statio	etion,		Tons. 15,238 9,231 2,584 3,723 36,042 541,366 27,984 22,289 1,732 3,058 11,117 16,870 8,879 27,581

### Tonnage of Articles Transported.—Entire Road.

						Tons.	Per Cent.
Grain,	_	_	_	_	_	21,061	2.38
Flour,	_	_	_ ·	_	_	9,794	1.11
Provisions (beef, pork, lard,	etc.).		_	_	_	2,605	.29
Animals.			_	-	_	3,809	.43
Other agricultural products,	_	_	_	_	_	36,849	4.17
Lumber and forest products,	,	-	-	-	-	543,705	61.51
Coal,		-	-	-	-	65,548	7.42
Plaster, lime and cement,	-	-	-	-		22,981	2.60
Salt,	-	-	-	-	-	1,823	.21
Petroleum,	-	-	-	-	-	3,766	.43
Railroad iron, iron and steel	roile	-	-	-	-	12,030	1.36
Pig and bloom iron,	iams,	-	-	-	-	17,298	1.96
	-	-	-	-			
Other iron and castings,	-	-	-	-	-	10,951	1.24
Stone, brick and sand,		-			-	27,996	<b>3.16</b>
Manufactures,—articles ship	ped f	rom 1	$\mathbf{point}$	of pr	·O-		
•duction,	-		• .	_ •	<u>.</u>	21,862	2.47
Merchandise and other an	ticles	not	enui	nerate	$\mathbf{ed}$	•	
above,	-	-		-	-	81,814	9.26
Total tons carried,	_	_	_	_		883,892	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company pays seven cents per ton per mile for all freight it carries over the line, except for small fruits, which are carried at an agreed rate. The messengers are carried free. It does a general express business and takes its own freight at the railway company's depot.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

676 to the Western Union Telegraph Company.

#### Transportation Companies.

### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Wagner Sleeping Car Co., New York, N. Y., \$3,933 10

### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

A . D. C			<b>60</b> 7	٣0
American Refrigerator Transit Co., St. Loui	18, M.O.,			50
Armour Refrigerator Line, Chicago, Ill.,	-	-	- 7	
Arms Palace Horse Car Co., Chicago, Ill.,		-	-	00
Atlanta, Stone, Coal & Lumber Co., Atlanta	, Ga.,	-		94
Blue Line, Rochester, N. Y.,	-	-	_ 2,829	31
Barrett & Barrett, Chicago, Ill.,	_	_	. 3	54
Canada Southern Line, Rochester, N. Y.,	_	_	_ 647	32
Cupples, Sam, Wooden Ware Co., Grand R.	apids, M	Iich.	42	86
Columbus & Hocking Salt & Iron Co., Colu			_ 7	99
Chicago Refrigerator Co., Lafayette, Ind.,	_	_	2	49
Eagle Consolidated Refining Co., Cleveland,	. O	_		99
Empire Line, Philadelphia, Pa.,		-		95
Erie Despatch, Indianapolis, Ind.,	-	-		35
	-	-		98
Great Eastern Line, Montreal, Canada,	-	-		43
Globe Refining Co., Pittsburg, Pa.,	-	-		97
Hilt & Lake Ice Co., Indianapolis, Ind.,	-	-		41
Kilbourne, S. Co., Grand Haven, Mich.,	-	-		61
Merchants' Despatch Transportation Co., N	~ V~	- N T		71
Midland Line Despatch Transportation Co., N	ew Ton	K, 14. 1	101	04
Midland Line, Buffalo, N. Y.,	-	-	_ 12	
Mann Brothers, Chicago, Ill.,	-	-	- 190	23
National Despatch Line, St. Albans, Vt.,	-	-		49
Nickel Plate Line, Buffalo, N. Y.,	n .	-		<b>58</b>
Pittsburg & Toledo Despatch, Alleghenny.		-	_	78
Parker, D. W., Kalamazoo, Mich.,	-	-	. 3	
Ked Line, Buffalo, N. Y.,	-	-		63
Rome, Watertown & Ogdensburg Line, Bos	iton, Ma	ISS.,		23
Rend, W. P. & Co., Chicago, Ill.,	-	-	_ 2	83
Rend, W. P. Chicago, Ill.,	-	-	_	72
Swift Refrigerator Line, Chicago, Ill.,	_	•		19
Street's Stable Car Line, Chicago, Ill.,	_	-	_ 4	20
Somers Coal Co., Columbus, O.,	-	-	_ 2	<b>78</b>
Southern Iron Car Line, Atlanta, Ga.,	_	_	_ 2	03
Southern Despatch Lumber Line, Atlanta, o	Ga.,	_	_ 1	94
St. Charles Car Co., St. Louis, Mo.,	_	_	. 1	31
Union Line, Pittsburg, Pa.,	_	_		99
Union Tank Line, New York, N. Y.,	<del>-</del>	-	56	01
West Michigan Equipment Co., & Lumbe	r Line.	Gran		-
Rapids, Mich.,	,	0.23	2,667	84
White Line, Buffalo, N. Y.,	-	-		35
Standard Oil Co., Cleveland, O.,	-	-	_	86
Ciddada Off Co, Cicrolada, C.,	-	-		
Total,			\$8,290	45
10mi,	-	-	- 40,200	TO

### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

April 15, Dennis Brennan, brakeman, Woodville. Derailment; unavoidable.

April 23, Cory W. Sherwood, street car driver, Grand Rapids. Struck on crossing; Sherwood himself at fault.

June 11, Jacob Kooi, boy, Grand Haven. Attempted to jump on train; Kooi at fault.

June 17, Orrin Clark, boy, Holland. Struck on R. R. bridge; unavoid-ble.

August 16, John Vandermere, student, Grand Rapids. Jumped from train; himself at fault.

September 19, Norman Eastman, citizen, Bangor. Struck on crossing; Eastman at fault.

October 19, Henry Gennett, sailor, Benton Harbor. Found dead beside track. Cause of death not known.

October 26, Jas. McLain, woodsman, Fremont. Run over while laying on track in drunken condition.

November 9, Jacob Regemnorter, farmer, Zeeland. Struck on crossing; himself at fault.

#### INJURED.

January 18, Jacob C. Whiting, farmer, North Muskegon. Horse ran into train.

February 20, Louis Fritz, farmer, County Line. Horse backed him into

February 26, W. J. Cremer, switchman, Muskegon. Mitten stuck to coupling pin; unavoidable.

March 29, John W. McAllister, switchman, Muskegon. Knocked from car; McAllister responsible.

April 10, Wm. Pickett, switchman, Muskegon. Hand caught between draw bars; unavoidable.

April 11, George Rogers, brakeman, Shelby. Thumb caught by pin. September 22, J. Alway, bridge carpenter, between Pickards' Junction and Fruitport. Fell from bridge; no one responsible.

October 11, Dwight Shoup, brakeman, Big Rapids. Fell from moving cars; no one responsible.

October 17, Henry Conley, section laborer, Watervliet. Attempted to couple cars; he is responsible.

December 12, Lucius Ransom, switchman, North Muskegon. Stumbled while pulling pin. No one responsible.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.		Injured.			
Causes of Accident.	Passengers.	Employés.	Others.	Passengers,	Employés.	Others.	
ollisions							
oupling cars				•	Б		
Perailments		1			,		
alling from trains		l			1		
rogs							
rogsetting on and off trains	1		1				
LEDWAY Grossines	I		8			ĺ	
iscellaneousverhead obstructions					٤		
verhead obstructions							
respassers on trains			<b>x</b>				
respassers on track			•				
······································	ļ				<u> </u>		
	Ì	1		†	İ		
Total	1	1	7		8	l	

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	9
Number of persons injured during the year,	10
Number of casualties purely accidental,	7
Number resulting from lack of caution, carelessness, or mis-	
conduct,	10
Persons killed or injured while intoxicated,	
Trespassers and tramps killed or injured,	3
Suicides,	

### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen			
Brakemen Conductors	1	2	
Engineers Firemen			
Aborers Shopmen		1	
fardmen Not classified above		. 1	
			ļ
Total	1	8	

STATE OF MICHIGAN, COUNTY OF KENT, SS.

Chas. M. Heald, General Manager, and U. B. Rogers, Auditor, of the Chicago & West Michigan Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF B. R.]

Signed,

CHAS. M. HEALD. U. B. ROGERS.

Subscribed and sworn to before me this 17th day of May, A. D. 1890.

Thomas C. Clark, Notary Public.

#### ANNUAL REPORT

#### OF THE

### DETROIT, LANSING & NORTHERN RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed May 21, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.

Secretary and Treasurer, CHARLES MERRIAM, Boston, Mass.

Auditor, U. B. ROGERS, Grand Rapids, Mich.

General Manager, J. B. MULLIKEN, Detroit, Mich.

General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.

Assistant Superintendent, F. M. DRAKE, Ionia, Mich.

Chief Engineer, J. J. McVEAN, Grand Rapids, Mich.

Traffic Manager, W. A. CARPENTER, Detroit, Mich.

Assistant Treasurer, J. E. HOWARD, Grand Rapids, Mich.

General Passenger and Ticket Agent, J. F. REEKIE, Detroit, Mich.

Assistant General Freight Agent, E. F. BAKER, Detroit, Mich.

Attorney, CHAS. B. LOTHROP, Detroit, Mich.

#### DIRECTORS.

H. H. Hunnewell, Boston, Mass. Geo. A. Shattuck, Boston, Mass. Chas. L. Young, Boston, Mass. Chas. Merriam, Boston, Mass. Chas. F. Adams, Boston, Mass. Nathaniel Thayer, Boston, Mass. James H. Blake, Boston, Mass. A. H. Hardy, Boston, Mass. John A. Burnham, Boston, Mass. E. V. R. Thayer, Boston, Mass. George Whitney, Boston, Mass.

Terms expire May 14, 1890.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—De	cemb	er 26	, 1876	<b>i</b> .			
Number of stockholders at date of last election,	-	-	-	-	-	-	481
Number of stockholders in Michigan at same date,	-	-	-	-	-	-	1

Amount of full paid stock held in Michigan at same date, - - - \$10,500 00 Date of annual meeting of stockholders,—Second Wednesday in May.

Fiscal year of company ends,—December 31.

Converse of this company are leasted at Boston Mass. Detroit and Grand Rapids.

General offices of this company are located at Boston, Mass., Detroit and Grand Rapids, Michigan.

### GENERAL EXHIBIT.

m			DEB	T.	CREDIT.
Total income,	_	-			<b>\$</b> 1,131,985 91
Total expenses including taxes,	-	-	\$806,924	02	
Net income,	-	-			325,061 89
Interest on funded debt,	-	_	<b>\$</b> 237,112		
Interest on unfunded debt,	_	_	4,987	07	
Rentals of buildings, tracks, etc.,			89,675		
140 man of buildings, studies, own,	-	-			331,774 <b>29</b>
Balance for the year,	-	_	<b>\$</b> 6,712	<b>40</b>	
Balance (profit and loss) last year, Balance forward to next year,	-	-	5 <b>7</b> ,59 <b>4</b>	70	<b>\$64,307</b> 10
			<b>\$64,307</b>	10	<b>\$64,307</b> 10
ANALYSIS OF	' CAI	PITAL	STOCK.		
Amount authorized by charter or a	rticle	es of a	ssociation,	_	<b>\$4,41</b> 0,000 00
Par value shares, Number of shares issued,	\$.	100 00 <b>43</b> ,356	)		, ,
				ΔΔ.	
Amount paid in on common,	-	-	<b>\$1</b> ,825,600		
Amount paid in on preferred,	-	-	2,510,000	00	
Total amount paid in as per book	ts of	the co	ompany,	-	4,335,600 00
Paid in per mile of road owned b —221.57 miles,	y co	mpany	, <b>\$</b> 19,567	63	

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When Due.	Where Payable.	Amount.
D., L. & N. B. R. Co., 1st mortgage bondslonia & Lansing R. R. Co., 1st mortgage bonds	7≰ 8≴	1907	Boston New York	\$2,672,000 00 770,000 00
Total funded debt				<b>\$8,442,000 00</b>

	U	NFUN	DED. I	DEBT.				
Total unfunded debt,	-	-	-	-		-	<b>\$4</b> 66,836	94
	R	ECAP	ITULA	TION.				
Total funded debt, Total unfunded debt,	-	<u>-</u>	-	-		-	<b>\$</b> 3,442,000 466,836	00 94
Total debt liabilitie	es <b>,</b>	_	_	_		_	<b>\$3,908,836</b>	94
Amount of debt liability Total amount of stock a Stock and debt per mile	$\mathbf{nd} \ \mathbf{deb}$	t,	of ro	ad, - -	-221.57 mi 	les, - -	17,641 8,244,436 37,209	94
GEI	VERAL	BAI	ANCE	SHE	ET.—Dr.			
Construction account Equipment account,		<u>.</u>	-	-	\$6,891,335 632,975	85 07	<b>\$</b> 7,53 <b>4</b> ,310	92
Other investments: Construction and equi ids, Lansing & Det Construction and equ	roit rai	lroad	<b>l</b> ,	_	<b>\$</b> 1,269,383	50	<b>\$1,001,010</b>	<b>0</b> 2
Western railroad,	- -	-	-	-	570,500	00	1,839,883	50
Cash items: Cash, Bills receivable, Due from agents,		- -	-	- -	\$154,988 133,787 11,147	21	, ,	
Other assets: Materials and supplie Sinking funds,	_	-	-	-	\$48,192 210,492			15
Debit balances from dividuals, Common stock scrip,		1108 8 - -	und in - -	- - -	219,045 71	20	477,801	<b>28</b>
Total,	-	-	-	_		-	<b>\$</b> 10,141,918	85
GE	NERAL	BAI	LANCE	s sh	EETCr.			
Capital stock, D., L. of Funded debt,					\$4,335,600 3,442,000	00	<b>9</b> 7 777 600	00
Capital stock, G. R., L. Capital stock, S. & W.			<b>\$2</b> 8,00 <b>4</b> ,50	00 00	\$32,500	00	<b>\$7,777,600</b>	w.
Funded debt, G. R. D. R. R., Funded debt, S. & W	_	<b>\$1</b> .	,108,0 566,0		,			00
							<b>\$9,4</b> 84,100	00

Unfunded debt, D., L. & N. Interest unpaid, Notes payable, Vouchers and accounts, Other liabilities: Net traffic balance due of	- - her co	- - - mpani	- - es,	\$149,381 150,000 131,686 35,769	00 18	<b>\$466,836</b> 9 <b>4</b>
Unfunded debt, G. R., L. & Notes payable, Profit and loss or income	N. K. accou	R.: nts,	-			133,387 21 57,594 70
Total,	-	-	-			<b>\$</b> 10,141,918 85
COST OF	ROA	D ANI	<b>EQ</b> U	IPMENT.		
Total Cost for Construction and	Equip	ment oj	Road	, and Branch	res E	Built by Company.
Total expended for construct Average cost per mile of a 221.57 miles, Proportion of cost for Mich						\$7,524,310 92 33,959 06
Proportion of cost for Mich	igan,	-	-		-	7,524,310 92
CHARGES AND CRED	ITS T	o pro	PERT	Y DURING	TH	E YEAR.
	M.	AIN LI	NE.			
New buildings, New cars,	-	-	-	<b>\$4</b> ,116 10,000		<b>\$14,11</b> 6 97
Total charges to proper	ty acc	ount,	-	<b>\$14</b> ,116	97	
Property sold and credited,	-	-	-	13,237	83	
Net addition to propert	y acco	unt,	-			\$879 14
ANA	ALYSI	s of i	EARN:	INGS.		
P	ASSEN	ER EA	ARNIN	<b>G8.</b>		*
Main line and branches:						
Local fares, Through fares,	-	-	-	\$410,194 51,457	39 76	
Total passenger fares,	_	-	_	\$461,652	15	
Express and baggage, Mails,	-	-	-	17,153 37,721		4
Total passenger departs	nent e	arning	ß,		-	<b>\$</b> 516,5 <b>27</b> 14
Proportion for Michigan, Per train mile, Per mile of road,	- - -	- -	- -	\$516,527 1,595	80	
*				•		

### FREIGHT EARNINGS.

Main line and bran	ches	:							
Local traffic,	_	_	_	_	_	2	527,867	94	
Through traffic,	-	-	-	-	-		74,013	02	
Total traffic,	-	-	-	-	-	\$(	601,880	96	
Other sources,	-	-	-	-	-		3,005	<b>76</b>	
Total freight d	lepar	tment	earn:	ings,	-		-		<b>\$</b> 604,886 72
Proportion for M			-	-	-	\$	604,886	72	
Per train mile,	-	-	-	-	-		1		
Per train mile, Per mile of road,	,	-	-	-	-		1,868	<b>78</b>	
Total transportation	n ear	nings	ι,	-	-	_			<b>\$</b> 1,121,413 86
Transportation ear Transportation ear						-	<b>\$</b> 3,464 1	58 03	
Miscellaneous received than for tra	ipts :	from rtatio	opera on, as	ting follo	accoui	nt,			
From telegraph,	_	-	-	-	-	_	<b>\$</b> 6,843	76	
From other sources	3,	-	_	_	_	_	3,728	29	•
						-			10,572 05
Total,	-	-	-	-	-	-			<b>\$</b> 1,131,985 91
Total earnings	from	opei	ration	of ro	ad,	-	-	-	1,131,985 91
Total earnings per	mile	of r	oad,	_	_	-	<b>\$</b> 3,497		
Total earnings per	train	mile	,			-	1	04	1 101 005 01
Proportion of taxal Total taxable earni	)16 <del>6</del> 8	rning	gs for	Mic	nigan,		-	-	1,131,985 91
Michigan,	пВв .	ber r	ппе (	- IO	au m		<b>\$</b> 3,497	23	
		-	-	-	-	-	<b>4</b> 0,201		
Total income f	rom a	all so	urces,		-	-	-	-	<b>\$</b> 1,131,985 91
Proportion of incom	ne fo	r Mic	higan	١,	-	-	-	-	1,131,985 91
		ANA	LYSIS	s of	EXPE	NS	ES.		
Cr	.ass 1.	—Mai	ntenar	ice of	Way a	nd I	Building	18.	•
Repairs of road wa	y and	l trac	k,	_		_	_	_	<b>\$104,299</b> 52
Renewals of rails,	-		-		-	_	_	_	13,160 30
Renewals of ties,		_		_	_			_	31,233 14
Repairs of bridges,	inch	ıdine	culve	rte e	nd cat	tle	ehrauro	•	12,999 33
Repairs of fences, r	ഹംപ്	- Arrig	nore e	nd ei	ome	3.0	D	-	12,519 33
Repairs of building	valu (	~ C001	ngo, a	nu bl	Pm,	-	-	-	27,331 71
TASPANTS OF DRINGINE	, <del>,,</del> ,	-	-	-	-	-	-	-	#1,001 11
Total,	-	-	-	-	-	-	-	-	<b>\$</b> 175,222 73

Repairs of passenger cars,	Class 2.—Mai	ntenano	ce of .	Motive	Powe	r and C	ars.		
Repairs of passenger cars,   37,727 83	Repairs of locomotives.	_						<b>\$44</b> .855	70
Total	Repairs of passenger cars	-	-	-	-	•	-	54 811	04
Total	Renairs of freight cars.		•	-	•	-	-	37,727	83
CLASS 3.—Conducting Transportation.   Fuel for locomotives,   \$92,842 65	morphis of froight outs,	-	-	_	•	-			
Class 3.—Conducting Transportation.   \$92,842 65	Total,	-	_	_	_	_	_	<b>\$</b> 137,394	<b>57</b>
Fuel for locomotives,   \$92,842 65		Q			4.	.4.		•	
Water supply,       5,278 33         Oil and waste,       4,670 59         Locomotive service,       81,272 76         Passenger train service,       27,146 56         Passenger train supplies,       4,200 36         Mileage of passenger cars,       31 67         Freight train supplies,       2,279 87         Mileage of freight cars,       11,942 06         Telegraph expenses, maintenance and operating,       10,850 53         Damage and loss of freight and baggage,       404 08         Damages to property and cattle,       2,378 63         Personal injuries,       1,285 25         Agents and station service,       91,704 37         Station supplies,       5,477 35         Total,       \$370,066 84         Class 4—General Expenses.         Salaries of the general officers of the company,       \$26,469 85         Salaries of clerks in general offices,       21,242 20         Law expenses,       4,754 73         Insurance,       2,2858 77         Stationery and printing,       9,914 14         Outside agencies and advertising,       8,225 02         Contingencies,       23,404 34         Maintenance of way and buildings,       Per Cent of Expenses.		Cona	uctin	g Tran	sporto	ition.			
Oil and weate, 4,670 59 Locomotive service, 81,272 76 Passenger train service, 27,146 56 Passenger train supplies, 4,200 35 Mileage of passenger cars, 31 67 Freight train service, 28,301 89 Freight train supplies, 2,279 77 Mileage of freight cars, 11,942 06 Telegraph expenses, maintenance and operating, 10,850 53 Damage and loss of freight and baggage, 404 08 Damages to property and cattle, 2,378 67 Personal injuries, 1,285 25 Agents and station service, 91,704 37 Station supplies, 5,477 35  Total, CLASS 4—General Expenses.  Salaries of the general officers of the company, \$26,469 85 Salaries of clerks in general offices, 21,242 20 Law expenses, 4,754 79 Insurance, 2,858 77 Stationery and printing, 9,914 14 Outside agencies and advertising, 8,225 02 Contingencies, 7,055 77 Taxes, 23,404 34 Miscellaneous, 20,315 00  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 12,171 Maintenance of motive power and cars, 17,03 137,394 57 Conducting transportation, 45.86 370,066 84 Total operating expenses, and taxes, 100.00 \$806,924 02 Operating expenses and taxes per mile of road, \$2,492 96 Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197		_	-	-	-	-	-		
Oil and weate, 4,670 59 Locomotive service, 81,272 76 Passenger train service, 27,146 56 Passenger train supplies, 4,200 35 Mileage of passenger cars, 31 67 Freight train service, 28,301 89 Freight train supplies, 2,279 77 Mileage of freight cars, 11,942 06 Telegraph expenses, maintenance and operating, 10,850 53 Damage and loss of freight and baggage, 404 08 Damages to property and cattle, 2,378 67 Personal injuries, 1,285 25 Agents and station service, 91,704 37 Station supplies, 5,477 35  Total, CLASS 4—General Expenses.  Salaries of the general officers of the company, \$26,469 85 Salaries of clerks in general offices, 21,242 20 Law expenses, 4,754 79 Insurance, 2,858 77 Stationery and printing, 9,914 14 Outside agencies and advertising, 8,225 02 Contingencies, 7,055 77 Taxes, 23,404 34 Miscellaneous, 20,315 00  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 12,171 Maintenance of motive power and cars, 17,03 137,394 57 Conducting transportation, 45.86 370,066 84 Total operating expenses, and taxes, 100.00 \$806,924 02 Operating expenses and taxes per mile of road, \$2,492 96 Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Water supply,	_	-	_	_	_	_		
Locomotive service,   81,272 76   Passenger train service,   27,146 56   Passenger train supplies,   4,200 35   Mileage of passenger cars,   31 67   Freight train supplies,   28,301 89   Freight train service,   28,301 89   Treight train supplies,   2,279 77   Mileage of freight cars,   11,942 06   Telegraph expenses, maintenance and operating,   10,850 53   Damage and loss of freight and baggage,   404 08   Damages to property and cattle,   2,378 63   Personal injuries,   4,265 25   Agents and station service,   91,704 37   Station supplies,   5,477 35   Total,   \$370,066 84      Class 4 - General Expenses   4,754 79   Total,   \$26,469 85   Salaries of the general officers of the company,   \$26,469 85   Salaries of clerks in general offices,   21,242 20   Law expenses,   4,754 79   Stationery and printing,   9,914 14   Outside agencies and advertising,   8,225 02   Contingencies,   7,055 77   Taxes,   23,404 34   Miscellaneous,   20,315 00      Total,   RECAPITULATION OF EXPENSES.	Oil and waste,	-	_	-	-	-	_	4,670	59
Passenger train supplies,   3,200 35     Mileage of passenger cars,   228,301 89     Freight train supplies,   2,279 77     Mileage of freight cars,   11,942 06     Telegraph expenses, maintenance and operating,   10,850 53     Damage and loss of freight and baggage,   404 08     Damages to property and cattle,   2,378 63     Personal injuries,   1,285 25     Agents and station service,   91,704 37     Station supplies,   5,477 35     Total,   \$370,066 84     Class 4.—General Expenses.   21,242 20     Law expenses,   4,754 79     Insurance,   2,285 87     Stationery and printing,   9,914 14     Outside agencies and advertising,   8,225 02     Contingencies,   7,055 77     Taxes,   23,404 34     Miscellaneous,   20,315 00     Total,   \$124,239 88     RECAPITULATION OF EXPENSES.     Maintenance of way and buildings,   17.03     Total,   \$175,222 73     Maintenance of motive power and cars,   17.03     Conducting transportation,   45.86   370,066 84     General expenses, including taxes,   15.40     Total operating expenses and taxes per mile of road,   000     Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Locomotive service,	_	-	-	-	-	_		
Freight train service,   28,301 89	Passenger train service,	-	_	-	_	_	_	27,146	<b>56</b>
Freight train service,   28,301 89	Passenger train supplies,	-	-	_		-	_	4,200	35
Preight train service,   22,301 89   Freight train supplies,   2,279 77   Mileage of freight cars,   11,942 06   Telegraph expenses, maintenance and operating,   10,850 53   Damage and loss of freight and baggage,   404 08   Damages to property and cattle,   2,378 63   Personal injuries,   1,285 25   Agents and station service,   91,704 37   Station supplies,   5,477 35   Total,   \$370,066 84      Class 4.—General Expenses.   \$26,469 85   Salaries of the general officers of the company,   \$26,469 85   Salaries of clerks in general offices,   21,242 20   Law expenses,   4,754 79   Insurance,   2,858 77   Stationery and printing,   9,914 14   Outside agencies and advertising,   9,914 14   Outside agencies and advertising,   9,914 14   Outside agencies,   7,055 77   Taxes,   23,404 34   Miscellaneous,   20,315 00      Total,   \$124,239 88     RECAPITULATION OF EXPENSES.			-	_	_	-	- ,		
Mileage of freight cars,   11,942 06     Telegraph expenses, maintenance and operating,   10,850 53     Damage and loss of freight and baggage,   404 08     Damages to property and cattle,   2,378 63     Personal injuries,   1,285 25     Agents and station service,   91,704 37     Station supplies,   5,477 35     Total,   \$370,066 84     Class 4.—General Expenses.     Salaries of the general officers of the company,   \$26,469 85     Salaries of clerks in general offices,   21,242 20     Law expenses,   4,754 79     Insurance,   2,858 77     Stationery and printing,   9,914 14     Outside agencies and advertising,   9,914 14     Outside agencies and advertising,   8,225 02     Contingencies,   7,055 77     Taxes,   23,404 34     Miscellaneous,   20,315 00     Total,   \$124,239 88     RECAPITULATION OF EXPENSES.     Maintenance of motive power and cars,   17.03     Maintenance of motive power and cars,   17.03     Conducting transportation,   45.86     General expenses, including taxes,   15.40     Total operating expenses, and taxes per mile of road,   0,924 02     Operating expenses and taxes per train mile run, for trains earning revenue, —1,092,197	Freight train service,	_	_	-	_	-	_	28,301	89
Mileage of freight cars,   11,942 06     Telegraph expenses, maintenance and operating,   10,850 53     Damage and loss of freight and baggage,   404 08     Damages to property and cattle,   2,378 63     Personal injuries,   1,285 25     Agents and station service,   91,704 37     Station supplies,   5,477 35     Total,   \$370,066 84     Class 4.—General Expenses.     Salaries of the general officers of the company,   \$26,469 85     Salaries of clerks in general offices,   21,242 20     Law expenses,   4,754 79     Insurance,   2,858 77     Stationery and printing,   9,914 14     Outside agencies and advertising,   9,914 14     Outside agencies and advertising,   8,225 02     Contingencies,   7,055 77     Taxes,   23,404 34     Miscellaneous,   20,315 00     Total,   \$124,239 88     RECAPITULATION OF EXPENSES.     Maintenance of motive power and cars,   17.03     Maintenance of motive power and cars,   17.03     Conducting transportation,   45.86     General expenses, including taxes,   15.40     Total operating expenses, and taxes per mile of road,   0,924 02     Operating expenses and taxes per train mile run, for trains earning revenue, —1,092,197	Freight train supplies,	-	-	_	-	-	_	2,279	77
Telegraph expenses, maintenance and operating, Damage and loss of freight and baggage,	Mileage of freight cars,	-	_	_	_	_	_	11,942	06
Damage and loss of freight and baggage, Damages to property and cattle, Personal injuries, Agents and station service, Agents and station service, Station supplies,  CLASS 4.—General Expenses.  Salaries of the general officers of the company, Salaries of clerks in general offices, Law expenses, Law expenses, Stationery and printing, Outside agencies and advertising, Contingencies, Total,  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, Maintenance of motive power and cars, Conducting transportation, General expenses, and taxes, Total operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Telegraph expenses, mainter	nance	and o	perati	ing,	_	_		
Damages to property and cattle, 2,378 63 Personal injuries, 1,285 25 Agents and station service, 91,704 37 Station supplies, 5,477 35  Total, \$370,066 84  CLASS 4.—General Expenses.  Salaries of the general officers of the company, 21,242 20 Law expenses, 21,242 20 Law expenses, 4,754 79 Insurance, 2,858 77 Stationery and printing, 9,914 14 Outside agencies and advertising, 8,225 02 Contingencies, 7,055 77 Taxes, 23,404 34 Miscellaneous, 20,315 00  Total, \$124,239 88   RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 21,71 \$175,222 73 Maintenance of motive power and cars, 17,03 187,394 57 Conducting transportation, 45,86 370,066 84 General expenses, including taxes, 15,40 124,239 88  Total operating expenses and taxes per mile of road, 700 \$806,924 02 Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Damage and loss of freight	and ba	ggag	œ,	-	-	-	404	08
1,285 25	Damages to property and ca	ttle,	-	, , <u>.</u>	_	_	_	2,378	63
Agents and station service, Station supplies, 5,477 35	Personal injuries,	_		_	_	-	_	1,285	25
Station supplies,	Agents and station service.	_	_	_	_	_	_		
Total,   \$370,066 84	Station supplies,			-		-	_		
Salaries of the general officers of the company,       \$26,469       85         Salaries of clerks in general offices,       21,242       20         Law expenses,       4,754       79         Insurance,       2,858       77         Stationery and printing,       9,914       14         Outside agencies and advertising,       8,225       02         Contingencies,       7,055       77         Taxes,       23,404       34         Miscellaneous,       20,315       00         Total,       \$124,239       88         RECAPITULATION OF EXPENSES.         Maintenance of way and buildings,       21,71       \$175,222       73         Maintenance of motive power and cars,       17.03       137,394       57         Conducting transportation,       45.86       370,066       84         General expenses, including taxes,       15.40       124,239       88         Total operating expenses, and taxes,       100.00       \$806,924       02         Operating expenses and taxes per mile of road,       \$2,492       96         Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	<b></b>	-	-	-		-	-		
Salaries of the general officers of the company,       \$26,469       85         Salaries of clerks in general offices,       21,242       20         Law expenses,       4,754       79         Insurance,       2,858       77         Stationery and printing,       9,914       14         Outside agencies and advertising,       8,225       02         Contingencies,       7,055       77         Taxes,       23,404       34         Miscellaneous,       20,315       00         Total,       \$124,239       88         RECAPITULATION OF EXPENSES.         Maintenance of way and buildings,       21,71       \$175,222       73         Maintenance of motive power and cars,       17.03       137,394       57         Conducting transportation,       45.86       370,066       84         General expenses, including taxes,       15.40       124,239       88         Total operating expenses, and taxes,       100.00       \$806,924       02         Operating expenses and taxes per mile of road,       \$2,492       96         Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Cr.a	ss 4.—(	Tener	al Ecco	enses.				
Salaries of clerks in general offices,   21,242 20	•			_				<b>600</b> 400	0=
Law expenses, 4,754 79 Insurance, 2,858 77 Stationery and printing, 9,914 14 Outside agencies and advertising, 8,225 02 Contingencies, 7,055 77 Taxes, 23,404 34 Miscellaneous, 20,315 00  Total, \$124,239 88  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 21.71 \$175,222 73 Maintenance of motive power and cars, 17.03 137,394 57 Conducting transportation, 45.86 370,066 84 General expenses, including taxes, 15.40 124,239 88  Total operating expenses and taxes per mile of road, 15.40 \$2,492 96 Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Salaries of the general office	ers of t	he co	_	у, -	-	-		
Insurance,   2,858 77	<b>-</b>		3, -	-	-	-	-		
Stationery and printing,   9,914 14				-	-	-	-		
Outside agencies and advertising,	Insurance,	-	-	-	-	-	-		
Contingencies, 7,055 77 Taxes, 23,404 34 Miscellaneous, 20,315 00  Total, \$124,239 88  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 21.71 \$175,222 73 Maintenance of motive power and cars, 17.03 137,394 57 Conducting transportation, 45.86 370,066 84 General expenses, including taxes, 15.40 124,239 88  Total operating expenses, and taxes, 100.00 \$806,924 02  Operating expenses and taxes per mile of road, 700 perating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Stationery and printing,		-	-	-	-	-		
Taxes, 23,404 34  Miscellaneous, 20,315 00  Total, \$124,239 88  RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 21.71 \$175,222 73  Maintenance of motive power and cars, 17.03 137,394 57  Conducting transportation, 45.86 370,066 84  General expenses, including taxes, 15.40 124,239 88  Total operating expenses, and taxes, 100.00 \$806,924 02  Operating expenses and taxes per mile of road, 100.00 \$806,924 02  Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197		_	-	-	-		-		
Total,   RECAPITULATION OF EXPENSES.   Per Cent of Expenses.	Contingencies,	-	-	-	-		-		
Total, RECAPITULATION OF EXPENSES.  Maintenance of way and buildings, 21.71 \$175,222 73  Maintenance of motive power and cars, 17.03 137,394 57  Conducting transportation, 45.86 370,066 84  General expenses, including taxes, 15.40 124,239 88  Total operating expenses, and taxes, 100.00 \$806,924 02  Operating expenses and taxes per mile of road, 100.00 \$2,492 96  Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	18xes	-	-	-	-	-	-		
RECAPITULATION OF EXPENSES.  Maintenance of way and buildings,	Miscellaneous,	-	-	-	-	-	-	20,315	w
Maintenance of way and buildings, 21.71 \$175,222 73  Maintenance of motive power and cars, 17.03 137,394 57  Conducting transportation, 45.86 370,066 84  General expenses, including taxes, 15.40 124,239 88  Total operating expenses, and taxes, 100.00 \$806,924 02  Operating expenses and taxes per mile of road, 100.00 \$2,492 96  Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Total,	-	_	-	-			<b>\$</b> 124,239	88
Maintenance of way and buildings, 21.71 \$175,222 73  Maintenance of motive power and cars, 17.03 137,394 57  Conducting transportation, 45.86 370,066 84  General expenses, including taxes, 15.40 124,239 88  Total operating expenses, and taxes, 100.00 \$806,924 02  Operating expenses and taxes per mile of road, 100.00 \$2,492 96  Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	DECLE	TTTT 4	TION	0E E	DEMO	Tro.			
Maintenance of way and buildings, 21.71 \$175,222 73  Maintenance of motive power and cars, 17.03 137,394 57  Conducting transportation, 45.86 370,066 84  General expenses, including taxes, 15.40 124,239 88  Total operating expenses, and taxes, 100.00 \$806,924 02  Operating expenses and taxes per mile of road, 100.00 \$2,492 96  Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	RECAP	II ULA	HON	OF EA	.F EMS	Per Ce	nt of		
Maintenance of motive power and cars, 17.03 137,394 57 Conducting transportation, 45.86 370,066 84 General expenses, including taxes, 15.40 124,239 88  Total operating expenses, and taxes, 100.00 \$806,924 02  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	36 1 4 3 3 3								<b>70</b>
Conducting transportation, 45.86 370,066 84 General expenses, including taxes, 15.40 124,239 88  Total operating expenses, and taxes, 100.00 \$806,924 02  Operating expenses and taxes per mile of road, 200 perating expenses and taxes per train mile run, for trains earning revenue,—1,092,197				-				\$175,222	73
General expenses, including taxes, 15.40 124,239 88  Total operating expenses, and taxes, 100.00 \$806,924 02  Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Maintenance of motive power	er and	cars	, -				137,394	57
Total operating expenses, and taxes, 100.00 \$806,924 02  Operating expenses and taxes per mile of road, 200 \$2,492 96  Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	~ 1			_		45.	86	370,066	84
Operating expenses and taxes per mile of road, \$2,492 96 Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Conducting transportation,		-						
road, \$2,492 96 Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Conducting transportation,	taxes	, -	-				124,239	88
Operating expenses and taxes per train mile run, for trains earning revenue,—1,092,197	Conducting transportation, General expenses, including			-		15	.40		
	Conducting transportation, General expenses, including Total operating expenses, Operating expenses and ta	and te	axes,	- ile of	<u>,</u>	100	.40		
	Conducting transportation, General expenses, including Total operating expenses, Operating expenses and taroad, Operating expenses and taxes	and to	axes, er mi	mile	:	100	.40		

323.68

Proportion of operating expenses and taxes for Michigan, main line, Total proportion of expenses for Michigan,	\$806,924 02 -	<b>\$</b> 806,924 <b>02</b>
Percentage of expenses to earnings, 71.28%.  Net earnings per mile of road,  Net earnings per train mile	\$1,004 27 30	•

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:	
From Detroit to Howard City, August, 1871.	
From Stanton Junction to Big Rapids, July, 1880.	
From Kiddville to Belding, July, 1872.	
From Alma to Howard, August, 1886.	
From Grand Ledge to Grand Rapids, August, 1888.	
From Oakdale Park to Reed's Lake, August, 1888.	
MAIN LINE.	
Miles. 100ths. Miles. 1	00ths.

In Michigan, from Detroit to Howard City,	156.60	Miles, 100ths.
Total length completed,		156.60
BBANCHES.		
Belding, from Belding to Kiddville, Stanton, from Stanton Junction to Big Rapids,	1.67 63.30	
Total length of branches owned by company,		64.97
Total length of branches owned by company in Michigan,	64.97	
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,	221.57 92.83	221.57
Aggregate length of tracks in Michigan belong- ing to this company, computed as single track,		314.40
Gauge of track, 4 feet 81 inches.		
Proprietary or Leased Roads Operated by this (	Company.	
Name, description, and length of each: Alma to Howard City, S. & W. R. R., Grand Rapids to Grand Ledge, G. R., L. & D. R. R., Oakdale Park to Reed's Lake, G. R., L. & D. R. R., Lansing to North Lansing, M. C. R. R., Detroit to West Detroit, M. C. R. R.,	42.57 53.01 2.53 1.00 3.00	In Michigan.
Total,	102.11	

Total miles operated by the company,

### Number of Bridges and Trestles in Michigan.

Wooden bridges. Wooden tres	, num	ber c	of,	- - -	24;	aggre	gate le gate le gate le	ngth,	feet,	- -	595 2,653 4,977
Total,	-	-	_	-	90;	-	-	-	-	-	8,225

### Draw Bridges in Michigan.

How many on your line?	_	_	_	_	_	-	_	None.

### Crossings—Railroad and Highway.

What railroads cross your road at grade in this State, and at what locality?

Flint & Pere Marquette railroad at Plymouth.

Michigan Air Line railway at South Lyon.

Toledo, Ann Arbor & North Michigan railway at Howell Junction.

Chicago & Grand Trunk railway at Trowbridge.

Detroit, Grand Haven & Milwaukee railway at Ionia.

Toledo, Saginaw & Muskegon railroad at Greenville and Sheridan.

Grand Rapids & Indiana railroad at Grand Rapids and Big Rapids.

Lowell & Hastings railroad at Elmdale.

Michigan Central railroad at Grand Rapids.

At what crossings are interlocking and derailing switches in operation?

Toledo, Ann Arbor & North Michigan railway at Howell Junction.

Toledo, Saginaw & Muskegon railroad at Greenville and Sheridan.

Lowell & Hastings railroad at Elmdale.

Grand Rapids & Indiana railroad at Grand Rapids.

Michigan Central railroad at Grand Rapids.

### What pattern or patterns have you adopted? Union Switch & Signal Co. and Gravett.

2 - 2 - 2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 -	
Number of crossings of highways at grade in this State,	439
Number of crossings of highways at grade in this State at	
which there are gates or flagmen,	7
Number of crossings at which there are electric or	
automatic signals,	1
What pattern or patterns in use?	
Pennsylvania Steel Co., electric.	
Number of crossings of highways over or under railroad:	
Over,—9. Under,—8,	17
Number of highway bridges 18 feet above track,	9
Number of highway bridges less than 18 feet above track,	None.
Have safety guards been erected at over-head obstructions?	Yes.
Are your frogs and guard rails blocked as required by Act	
174, Session Laws 1883?	Yes.
How are they treated? Hart guard and blocked with plank.	

### Stations.

Number of stations on who	le line,	_	_	_	_	-	80
Same in Michigan,		_	-	-	_	_	80

1889.]	DELIC	OIT, L					10773		מאי	CO.	449
		•		E	mploy	és.					
Number of	nerson	g reonil	arly a				പ്പെട്ട	ners	hat		
by compa	nv. in	cluding	offici	als.	-	-	- ·	-	-		1,076
Same in Mi			-	-	_	-	_	_	_		1,074
Classify you	_	•	s per	follo	wing	list:					_,,
Baggager	_		-	_	_	_	_	_	_		27
Brakemer	n	_	_	_	_	-	_	_	_		<b>68</b>
Conducto	rs		-	_	_	_	_	_	_		38
Engineer			-	_	_	-	_	_	_		43
Firemen.		-	-	-	-	-	-	-	-		44
Laborers, Shopmen Yardmen,	, -	-	-	-	-	-	-	_	_		394
Shopmen	, -	-	-	-	-	-	-	-	-		<b>204</b>
Yardmen	, -	-	-	-	-	-	-	-	-		17
Others,		-	-	-	-	-	-	-	-		239
			REPA	IRS A	ND RI	ENEWA	LS.				
			Fer	icing	in Mi	chigan.					
How many	miles o	of fenc		•		_	_				646
Give the nu			_	•		mnlete	- a fan	- 1 م	wth	aidea	
					$\omega$		3 1011	.00	лош	prop	or your
	micnig	an, and	d the	count		which					•
All fenced.	Micnig	an, and			ies in						·
All fenced.			Ro	ad Be	ies in d and	which					. 66
All fenced.  Number of	track s	ections	Ro s in M	ad Be Iichig	ies in d and	which					66
All fenced.  Number of Average len	track s	ections section	Ros in Mas,—n	oad Be lichig	ies in d and gan,	which Track.	n need			5.50	•
All fenced.  Number of Average len Average number of Average numbe	track s gth of mber o	ections section	Ros in Mas,—n	ead Be lichig niles, ch sec	ies in d and gan, tion g	which Track zang,	n nee	ded: - -			3
Number of Average len Average nu Number of	track s gth of mber o	sections section of men es put i	Ros in Mass,—n in each	ead Be lichig niles, ch sec ole lir	ies in d and gan, tion g ne dur	which Track.  yang, ring the	n nee	ded: - -			3 123,586
All fenced.  Number of Average len Average number of Average numbe	track s gth of mber o new tie	sections section of men es put	Ros in Mas,—min eacin who	oad Be lichig niles, ch sec ole lin ck in	ies in d and gan, tion g ne dur Mich	which Track.  gang, ing the igan,	need	ded: - -			3
Number of Average len Average nu Number of Number of Average nu	track s gth of mber o new tie new tie	sections section of men es put i	Ros in Mas,—min eacin who	oad Be lichig niles, ch sec ole lin ck in	ies in d and gan, tion g ne dur Mich	which Track.  gang, ing the igan,	need	ded: - -			3 123,586 123,586
All fenced.  Number of Average len Average number of Number of Average number of Ave	track s gth of mber o new tie new tie mber o	sections section of men es put es put f new rack:	Rosin Mas,—min eacin who in tractions positions positions.	oad Be lichig niles, ch sec ole lin ck in	ies in d and gan, tion g ne dur Mich	which Track.  gang, ing the igan,	need	ded: - -			3 123,586 123,586
Number of Average len Average nu Number of Number of Average nu	track s gth of mber of new tic mber of ut in the 356.75,	sections section of men es put es put of new rack: miles	Ros in Mons,—n in each in who in tractions possible possi	lichig niles, ch secole lin ck in er mil	d and san, tion goes during Mich	which Track.  gang, ing the igan,	need	ded: - -			3 123,586 123,586
All fenced.  Number of Average len Average number of Number of Average number of Average number of Length (New rails posteel, tons 8	track s gth of mber of new tic mber of ut in the 356.75,	sections section of men es put es put of new rack: miles	Ros in Moss,—n in eacin who in tractices possible.  9.30.  with	lichig niles, ch secole lin ck in er mil	ies in d and ran, tion g ne dur Mich le of r	which Track.  gang, ing the igan,	need	ded: - -		<b>5.50</b>	3 123,586 123,586
All fenced.  Number of Average len Average number of Average numbe	track s gth of mber onew tic new tic mber out in to 356.75, of trace	sections section f men es put es put fo new rack: miles	Ros in Mos,—min eacin who in tractices possible.  9.30.  with  Brid	oad Be lichig niles, ch sec ole lin ck in er mil	d and gan, tion goes during Michle of resils, and Create Create Series of the control of the con	which Track.  gang, ing th igan, oad,	n need	- - - - <b>r,</b> -	-	5.50 9.30	3 123,586 123,586
All fenced.  Number of Average number of Number of Average number of Average number of Average number of Total miles  Amount of	track sigth of mber onew tie mber out in the state of track	sections section f men es put es put fo new rack: miles	Ros in Mos,—min eacin who in tractices possible.  9.30.  with  Brid	oad Be lichig niles, ch sec ole lin ck in er mil	d and gan, tion goes during Michle of resils, and Create Create Series of the control of the con	which Track.  gang, ing th igan, oad,	n need	- - - - <b>r,</b> -	-	5.50 9.30	3 123,586 123,586 385
All fenced.  Number of Average number of Number of Average number of Average number of Average number of Average number of Average number of Average number of Open Amount	track s gth of mber o new tie mber o ut in ti 356.75, of trace trestl eet,	sections section of men es put es put of new rack: miles ck laid	Ros in Mns,—n in each in who in tractices possible.  9.30. with  Brick rep.	lichig niles, ch secole lin ck in er mil	d and gan, tion goed under Michle of resils, and Crewith	which Track.  gang, ing th igan, oad,  ulverts. earth	n need	- - - - <b>r,</b> -	-	5.50 9.30	3 123,586 123,586
All fenced.  Number of Average number of Number of Average number of Average number of Average number all posterior of Average number of Average number of Timber culving and the Amount of Timber culving average number of Timber of Numbe	track sigth of mber onew tie mber out in the state of track trestleet, verts re-	sections section from the sput ses put	Ros in Mns,—n in each in who in tractices possible.  9.30. with  Brick rep.  durin	lichigniles, the secole linck in er mil	d and can, tion goed with confirmation with confirmation	which Track.  gang, ing thi igan, coad,  ulverts.	n need	- - - - <b>r,</b> -	-	5.50 9.30	3 123,586 123,586 385 448
All fenced.  Number of Average len Average number of Average number of Average number of Average number all posterior and the Amount of Innear for Timber cultivation process.	track sigth of mber onew tie mber out in the state of track trestleet, verts resipe—n	sections section from the sput ses put	Ros in Mns,—n in each in who in tractices possible.  9.30. with  Brick rep.  during,	lichigniles, the secole linck in er mil	d and gan, tion goed under Michle of resils, and Crewith	which Track.  gang, ing thi igan, coad,  ulverts.	n need	- - - - <b>r,</b> -	-	9.30	3 123,586 123,586 385 448
All fenced.  Number of Average number of Number of Average number of Average number of Average number all posterior of Average number of Average number of Timber culving and the Amount of Timber culving average number of Timber of Numbe	track s gth of mber o new tie mber o ut in t: 356.75, of trace trestleet, verts re ipe—n pipe,—	sections section from the sput set sput set set set set set set set set set se	Ros in Mons,—n in each in who in tractices possible.  9.30. with  Brick rep.  during, er,	lichigniles, the secole linck in er mil	d and gan, tion goed to Mich le of reails, and Crawith year	which Track.  gang, ing th igan, oad,  ulverts. earth	n need	- - - - <b>r,</b> -	-	5.50 9.30	3 123,586 123,586 385 448

Location,	Kind,	Material,	Month Built.	Feet in Length,
Vebberville	Pile trestle	Wood	November	į
iddville emon's cattle pass	Howe truss	Wood	October	15
Vymane	Pile trestle	Wood	July September	47
Vest Branch Liverdale	Pile trestle	Wood Iron	September May and June_	7 17

<b>350</b> 0	MICHIGAN	KAILWO	AD RETUR	WD.	f Dec	31,
	R	OLLING 8	POCK.		Present	
37 1 61				Number.	Estimated Valu	e.
weight, exc	comotives of more clusive of tender,		_	36	<b>\$171,000</b>	00
weight, exc	locomotives of 20 clusive of tender,		- -	5	24,000	00
Total,			-	41	<b>\$</b> 195,000	00
	passenger cars—8	-wheel, in	cluding			
official car				39	156,000	
Number of e	xpress and baggag	e cars,		17	34,000	
Number of b	ox freight cars,			410	164,000	00
Number of s	lattamm asma			<b>42</b> 539	15,750	
Number of p	latform cars, onductors' way car			959 27	148,225 13,500	
	<u> </u>	.18, _		21	15,500	w
Road train s carpenters' painters'	as follows: leeper, 1; road to cars, 2; bridge car, 1; kitchen 1 team shovel, 1,	ar, 1; too	ol car, 1;	10	13,200	00
Total,			-	1,084	<b>\$</b> 739,675	00
Number of fr What pattern and cars w Westinghous tives 4; Ea Are your fr by Act No. 1	assenger train cars reight cars equipp as of power brakes ith each? He automatic, locon mes' vacuum, locon reight cars being e 47, Session Laws our passenger cars	ed with por have you notivos 20 pmotives 1 quipped wo f 1885?	ower braken in use, and , cars 56; A ith automa No.	number merican tic couple	None. of locomotive steam, locomotive ers as require	10-
	MILEA	GE, TRAF	FIC, ETC.			
		Train Mile	age.			
Miles run by Miles run by	passenger trains freight trains du	during the	ear,		644,0 448,1	
Total mi	leage of trains ear	ning reve	nue, -		1,092,1	<u>97</u>
	P	assenger T	raffic.			
	nrough passengers ocal passengers ca		Number and Quanti 15,11 680,73	ties. Mile 8	Rate. s. Dollars. Ces	1 <b>te.</b>
Total num	ber of passengers	carried,	695,85	3		
	germileage, or passe ance traveled by e			e, 18,40	00,080 <b>26.442</b>	

А	

Average amount received fro Average rate of fare per mile Average rate of fare per mile Average rate of fare per mile	o for the for lo	roug cal p	sh pa sase	ssenge ngers,	- ers, - -	- -	\$0 66.34 02.20 02.55 02.50
	Freig	ht T	raffic.	•			
Number of tons of through in Number of tons of local freign	freight	carr	ied,	Number and Qua	ntities ',141	. Miles.	Rate. Dollars. Cents.
Total tons of freight car	ried,	-	-	<b>4</b> 86	,624		
Total mileage of through fre Total mileage of local freight	ight, t,	•	- 	-		7,323,72 32,600,39	
Total freight mileage, or	tons	carrie	ed or	e mile	, 8	39,924,12	1
Average ton haul for through Average ton haul for local fre Average ton haul for all freig	eight,	_	- - -	- - -	- -	1 5 7 8	4
Average amount received for Average rate per ton per mile Average rate per ton per mile Average rate per ton per mil	receive, receive, rece	red for ived i ived	or this for lo	ocal frei	eight ght,	- -	\$1 23.680 01.010 01.619 01.507
Freight Fo	rwarde	d at 1	Hichi	gan Sto	itions	·	Tone.
Grain,	-	-	-	-	-	-	30,031
Flour,	_	_	_	_	-	_	8,755
Provisions (beef, pork, lard,	etc.),	-	_	-	_	_	1,344
A : 7 -		_	-	_	-	-	14,537
Other agricultural products,	_	_	_	_	_	_	32,279
Lumber and forest products,	_	_	_	-	_		299,437
Coal,	-	-	-	-	-	-	15,567
Plaster, lime and cement,	-		-		-	_	5,509
Salt,	-	-	•	-	-	-	5,349
75 ( 1	-	-	-	-	-	-	3,100
Reilroad iron iron and stool i	roila	-	-	-	•	-	2,434
Pig and bloom iron	. will,		-	-	-	•	1,369
Pig and bloom iron, Other iron and castings, Stone brick and sand	-	-	-		-	-	7,445
Stone, brick and sand,	-	-	-	-	•	•	7,904
Manufactures,—articles shipp	and fro	- m n	int a	of proc	170	-	1,001
tion,	peu III	ли р.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	or broc	tuc-		12,203
Merchandise and other article	es not	- enun	- 1erat	ed abo	ve,	-	39,361
Total forwarded,	-	_	-	-	-	-	486,624
Tonnage of Ar	ticles T	ran <b>s</b> p	orted	!—Enti	re Ro	ad.	
		_				Tons.	Per Cent.
Grain,						30,031	6.18
Flour,	-	-	-	-		8,755	1.79
Provisions (beef, pork, lard,	etc.)	-	-	-		1,344	.28
Animals,	ъи. <i>ј</i> ,	-	-	-		14,537	2.99
Animais,	-	-	-	-		17,001	4.77

•					Tons.	Per Cent.
Other agricultural products,	_	_	_	_	32,279	6.63
Lumber and forest products,	_	-	_	•	299,437	61.54
Coal,	_	_	_	_	15,567	3.19
Plaster, lime and cement,	_	_	_	_	5,509	1.13
Salt,	_	_	-	-	<b>5,34</b> 9	1.09
Petroleum,	_	_	_	_	3,100	.64
Railroad iron, iron and steel r	ails,	_	-	_	2,434	.51
Pig and bloom iron,	_ ′	_	_	_	1,369	.29
Other iron and castings,	_	-	-	_	7, <del>44</del> 5	1.53
Stone, brick and sand,	_	-	_	_	7,904	1.62
Manufactures,—articles shipp	oed	from	point	t of	,	
production,	_	_	<b>-</b>	_	12,203	2.50
Merchandise and other article	es n	ot en	ımera	ted	, ,	
above,	-	-	-	-	39,361	8.09
Total tons carried,	-	-	-	-	486,624	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. It handles its own freight.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? To this company; 309.88 miles.

#### TRANSPORTATION COMPANIES.

### Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman I Woodruff						- • -	-	-	-	<b>\$622</b> 50 <b>45</b> 00
Total,	_	_	_	_	_	_	_	_	_	<b>\$</b> 667 50

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Michigan R. R. Equipment Co., Detroit, Mich.,	<b>\$</b> 1,791 00
Blue Line, Rochester, N. Y., Merchants' Dispatch, New York, Red Line Buffele New York	1,854 22
Merchants' Dispatch, New York,	926 13
Red Line, Buffalo, New York,	<b>734 49</b>
Red Line, Buffalo, New York, Canada Southern Line, Rochester, New York,	651 26
National Dispatch Line, St. Albans, Vt., Great Eastern Line, Montreal,	517 91
Great Eastern Line, Montreal,	374 43
Detroit Iron Furnace Co., Detroit, Mich.,	183 22
West Michigan Equipment Co. & Lumber Line, Grand	
T 1 T T T T T T T T T T T T T T T T T T	174 45
Rapids, Mich., R. W. & O. Line, Boston, Mass.,	159 65
Uuion Tank Line, New York,	72 56
Union Line, Pittsburgh, Pa.,	
Empire Line, Philadelphia, Pa.,	33 54
Pittsburg & Toledo Despatch: Allegheny, Pa.	28 39
Empire Line, Philadelphia, Pa., Pittsburg & Toledo Despatch; Allegheny, Pa., Midland Line, Buffalo, New York,	
Midland Line, Buffalo, New York, Erie Dispatch, Indianapolis, Indiana,	6 48
D. W. Parker, Kalamazoo, Mich.,	5 05
White Line, Buffalo, New York,	5 05
Chicago Refrigerator Car Co., Lafayette, Indiana,	4 94
Silas Kilbourn & Co., Grand Haven, Mich.,	4 18
Peerless Tank Line, Cleveland, Ohio,	4 02
Columbus & Hocking Coal & Iron Co., Columbus, O.,	2 72
Burton Stock Car Co., Boston, Mass.,	2 45
E C Walker Detroit Mich	2 19
E. C. Walker, Detroit, Mich., Southern Dispatch Lumber Line, Atlanta, Ga.,	$\begin{array}{c} 2 & 19 \\ 2 & 11 \end{array}$
Street's Steble Con Line, Chicago Illa	1 53
Street's Stable Car Line, Chicago, Ills.,	
Armour's Refrigerator Line, Chicago, Ills.,	1 23
Atlanta Stone, Coal & Lumber Co., Atlanta, Ga.,	1 17
Ohio & Western Coal & Iron Co., Columbus, Ohio,	94
C. B. Havens & Co., Omaha, Neb.,	90
S. E. Barrett, Chicago, Ills.,	84
W. P. Rand, Chicago, Ills.,	48
W. P. Rand, Chicago, Ills., Arms' Palace Horse Car Co., Chicago, Ills., W. P. Rend & Co., Chicago, Ills.,	47
W. P. Kend & Co., Chicago, Ills.,	15
Total,	<b>\$</b> 7,637 63

### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

### KILLED.

January 4, J. B. W. Drew, Howard. Stepped on track in front of backing train; Drew at fault.

January 25, Fred. Bleumle, citizen, Stanton Junction. Struck on curve;

Bluemle at fault.

February 28, F. W. Vealey, brakeman, Brighton. Struck on head by switch target while looking from way car steps.

March 16, W. J. Wilson, Williamston. Jumped from train when in

motion; Wilson at fault.

April 6, Wm. Tripp, brakeman, Webberville. Fell from top of train; accidental.

September 19, Albert M. Madden, brakeman, Fowlerville. Fell from locomotive.

October 19, August Grostic, Howell. Drove in front of moving train at crossing; Grostic at fault.

#### INJURED.

January 7, Godfrey Wendland, section laborer, Howard City. Foot injured by rail falling upon it.

January 26, Peter Johnson, Greenville. Jumped from train; his own

fault.

January 31, George Lane, brakeman, Edmore. Wrist cut by breaking of lantern globe.

March 13, L. W. Seeley, freight conductor, Riverdale. Two ribs cracked

while coupling cars.

May 18, H. Rosema and wife, Oakdale Park. Horse ran into train.

September 10, John Corrigan, section laborer, Ionia. Foot injured by rail falling upon it.

December 11, G. E. Jackson, brakeman, Grand Ledge. Hand smashed while coupling cars.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.		1	Injured.	
(auses of Accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Collisions						
oupling cars					2	
Derailments		<u>-</u> -		J	<b></b>	
rogs						
etting on and off trains						
lighway crossings			1			
(iscellaneous) verhead obstructions		1			3	
respassers on trains			3			
respassers on tracks.						
		!	_			
Total		8	4		8	

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	-	_	-	_	7
Number of persons injured during the year,	_	_	-	-	7
Number of casualties purely accidental,	_	_	_	_	5
Number resulting from lack of caution, carelessner	88, or	misc	ondr	ıct,	9
Persons killed or injured while intoxicated,		_	_	-	
Trespassers and tramps killed or injured,	_	_	_	_	2
Suicides,	-	-	-	_	_

### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	 Killed,	Injured.	Total,
Baggagemen.	 		
Brakemen	8	2	
Ingineers.	 		
iremen	 	2	
hopmen.  ardmen. :   fot classified above	 		
Total.	 3	5	

STATE OF MICHIGAN, COUNTY OF KENT,

Chas. M. Heald, General Manager, and U. B. Rogers, Auditor, of the Detroit, Lansing & Northern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

CHAS. M. HEALD. U. B. ROGERS.

Subscribed and sworn to before me this 22d day of May, A. D. 1890.

James Austin, Notary Public.

#### ANNUAL REPORT

#### OF THE

### SAGINAW VALLEY & ST. LOUIS RAILROAD COMPANY,

For the Year Ending December 31, 1889.

#### [Filed May 21, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN B. MULLIKEN, Detroit, Mich.
Secretary and Treasurer, JAMES E. HOWARD, Grand Rapids. Mich.
General Auditor, C. W. COURTWRIGHT, Boston, Mass.
General Manager, JOHN B. MULLIKEN, Detroit, Mich.
General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.
Ass't Superintendent, F. M. DRAKE, Ionia, Mich.
Chief Engineer, J. J. McVEAN, Grand Rapids, Mich.
Auditor, U. B. ROGERS, Grand Rapids, Mich.
Traffic Manager, W. A. CARPENTER, Detroit, Mich.
General Passenger Agent, J. F. REEKIE, Detroit, Mich.
Ass't General Freight Agent, E. F. BAKER, Detroit, Mich.
Attorney, CHAS. B. LOTHROP, Detroit, Mich.

#### DIRECTORS.

H. H. Hunnewell, Boston, Mass. Charles Merriam, Boston, Mass. Nathaniel Thayer, Boston, Mass. C. F. Adams, Boston, Mass. Jas. H. Blake, Boston, Mass. A. H. Hardy, Boston, Mass. Geo. O. Shattuck, Boston, Mass. Chas. L. Young, Boston, Mass. Jno. A. Burnham, Boston, Mass. E. V. R. Thayer, Boston, Mass. F. H. Damon, Boston, Mass. George Whitney, Boston, Mass. John B. Mulliken, Detroit, Mich.

Terms expire second Wednesday in July, 1890.

### STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,	<b>Iay</b>	17, 1	<b>871.</b>				
Number of stockholders at date of last election,	-	-	-	-	-	-	84
Number of stockholders in Michigan at same date		_	_	_			ee

Amount of full paid stock held in Michigan at same date, - - ' - - \$25,200 Date of annual meeting of stockholders,—Second Wednesday in July.

Fiscal year of company ends,—December 31.

General offices of the company are located at Detroit, Michigan.

### REMARKS.

This road is operated under lease by the Detroit, Lansing Northern Railroad Co.

### GENERAL EXHIBIT.

	DEBIT.	CREDIT.
Total income, Total expenses, including taxes,	- \$57,958 <b>62</b>	96,813 70
Net income,	~	38,855 08
Interest on funded debt,	- \$35,680 00 - 7,000 00	42,680 00
Balance for the year, Balance (profit and loss) last year,	\$3,824 92 97,259 03	
Items not included in above as follows	3:	•
Miscellaneous income, Balance forward to next year,	. 1	\$456 00 .00,627 95
	<b>\$101,083 95 \$1</b>	01,083 95
ANALYSIS OF CAP	ITAL STOCK.	
Amount authorized by charter or article	s of association, _ \$3	00,000 00
Par value of shares, . \$100 No. of shares issued, . 2	00 553	
Amount paid in on common, Amount paid in on shares not issued,	<b>\$255,300 00</b> <b>9,504 01</b>	
Total amount paid in as per books o	f the company, 2	64,804 01
Paid in per mile of road owned by comper- -35.50 miles, 58	any, - \$7,459 27	

Total,

\$829,406 19

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

	FUND	ED DEBT.					•
Class, Character, and Date of	! Issue.	When Due.		Interest,		Amou	nt.
			Rate.	Payable,			
First mortgage bonds	···········	May 1, 1902	. 8%	New York (	lity	\$446,00	00 00
Total funded debt						\$446,00	00 00
•	UNFUN	DED DEBT.					
For What Incurred.	Is the Sa	ne to be Funde	d or Hov	Liquidated.	1	mount	 t.
For Construction							
for Construction							• • • • • • • • • • • • • • • • • • •
For RenewalsFor Miscellaneous							
For Current Balances	To be paid fr	om earnings				\$118,60	2 18
·Total unfunded debt						\$118,60	<b>D2</b> 18
	DECLE	TULATION.					
m	BEOAL	II ULALIUN.					
Total funded debt, _ Total unfunded debt, _		 -	-	-		6,000 8,602	
Total debt liabilities	8,		-	-	<b>\$</b> 56	4,602	18
Amount of debt liabilities	es per mile	of road,—	35.50 n	niles,	1	5,904	29
Total amount of sto	ck and deb	t, _	-		\$82	9,406	19
Stock and debt per mile	of road,—	35.50 miles	,	-	2	3,363	<b>5</b> 5
GEN	ERAL BAI	ANCE SHE	EET.—I	) <sub>R.</sub>			
Construction account,			<b>\$</b> 618	176 81			
Equipment account,		-		037 00			
					<b>\$</b> 70	5,213	81
Cash items:			<b>91</b>	001 00			•
Cash, Due from agents,			<b>₽</b> T	,991 89 159 65 ·			
Due from agence,				100 00		2,151	54
Other assets:						,	
Materials and supplies		- ;		303 80			
Debit balances from	compani	es and	ດາ	100 00			
individuals, <sub>-</sub>				,109 09	2	1,412	89
Profit and loss,		•				0,627	

43,700 33

### GENERAL BALANCE SHEET.--Cr.

GENE	RAL B	ALAN(	E SH	EETCr.	
Capital stock,	,	<b>\$</b>		\$264,804 01	
Funded debt,	-	-	_	446,000 00	
					<b>\$</b> 710,804 01
Unfunded debt:				<b>o</b> c 0cc c7	
Interest unpaid, Vouchers and accounts,	-	-	-	<b>\$</b> 6,066 67 5,430 62	
Other liabilities:	-	-	-	0,400 02	
Net traffic balance due to	other co	mpan	ies,	2,953 69	
Saginaw & Grand Rapid	ds railre	oad,	-	15,833 27	
D., L. & N. railroad,	-	-	-	88,317 93	
					118,602 18
Total,	-	-	-		\$829,406 19
COST	OF ROA	D AN	D EQU	JIPMENT.	
Total Cost for Construction as	nd Equi	oment o	of Road	l and Branches Bu	ilt bu Companu.
Total expended for constru Average cost per mile	uction a	and eq d not	uipme	ent, Idino sidinos	<b>\$</b> 705,213 81
—35.50 miles.	-	_	_		19,893 35
Proportion of cost for Mic	higan,	-	-		705,213 81
AN	NALYSI	s of	EARN	INGS.	
	PASSEN				
Nr : 3:	IABBEN	GER E	ZZIMIN	us.	
Main line and branches: Local fares,				<b>\$</b> 47,205 16	
Through fares,	-	-	-	1,140 64	
Infoughtares,	-	-	-	1,110 01	
Total passenger fares,		_	_	<b>\$48,345</b> 79	
Express and baggage,	-	-	_	609 05	
Mails,	-	-	-	3,300 84	
· Total passenger depar	rtment	earnir	ıgs,		<b>\$</b> 52,255 68
Proportion for Michigan,				<b>\$52,255</b> 68	
Per train mile.	•	-	-	89	
Per train mile, Per mile of road,	-	_	-	1,158 66	
	****		DATA	10	
	FREIG	HT EA	LBNING	15.	
Main line and branches:				A40.000 00	
Local traffic,	-	-	-	<b>\$4</b> 0,977 76	
Through traffic,	-	-	-	2,713 57	
• Total traffic,	-	-	-	<b>\$4</b> 3,691 33	
Other sources,	_	_	_	9 00	

Total freight department earnings,

							=		
Proportion for Michigan,				4	43,700	22			
Per train mile,	-		-	•		<b>52</b>			
Per mile of road,	-	•	r		968				
Ter mile of road,	-		-		900	וט			
Total transportation earn	ings,				<u>.</u> .		\$95,956	01	
Transportation earnings per n	nile o	fras	ad.		\$2,127	63			
Transportation earnings per t	rain i	nile	<b></b> ,			10			
Miscellaneous receipts from	opera	atino	. ac-	-	-				
count, other than from earning									
From telegraph,	-6~,				109	69	•		
From other sources,	_	-	-	-	748		857	69	
	-	-	-	-					
Total earnings from oper	ation	of 1	road,	-	-	-	<b>\$</b> 96,813	70	
Total earnings per mile of roo	he				\$2,146	65			
Total earnings per train mile,		-	•		1				
Proportion of taxable earnings	for I	Mich	ioan		96,813				
Total taxable earnings per m	ile of	Fros	ad in		00,020	••	•		
Michigan,	-10 0				2,146	65			
Income other than from earni	nøs.	-	-		_,	00	456	00	
		-	•						
Total income from all sou	ırces,		-		-	-	<b>\$</b> 97,269	70	
Proportion of income for Mic	higar	1,	-	-	-	-	97,269	70	
ANAL	YSIS	OF	EXPE	NSE	S.				
CLASS 1.—Mair	ıtenan	ce of	Way a	ind I	Building	8.			
Repairs of road way and track	r.						\$8,407	91	
Renewals of rails,		-	-	-	(cred	it.)	1,572		
Renewals of ties,	-	-	-	-	(0100	,	3,531		
Repairs of bridges, including	culve	rts a	ınd cat	tle	enards.	-	61		
Repairs of fences, road crossing	ngs. a	nd s	igns.		<b>5</b> ,	-	671		
Repairs of buildings,	-			_	_	_	1,149		
			_						
Total,	-	-	-	-	-	-	<b>\$12,250</b>	07	
Class 2.—Mainte	enance	of I	Motive 1	Powe	r and C	ars.			
							<b>A</b> A 400	07	
Repairs of locomotives,	-	-	-	-	-	-	<b>\$2,692</b>	91	
Repairs of passenger cars,	-	-	-	-	-	-	2,901	25	
Repairs of freight cars,	-	-	-	-	-	-	1,345	19	
m						•	00.000		
Total,	-	-	-	-	-	-	<b>\$</b> 6,939	43	
Class 3.—	Condu	cting	Trans	port	ation.				
Fuel for locomotives,							<b>\$</b> 6,451	14	
Water supply,	-	-	-	-	-	-	351		
Oil and waste,	-	-	-	-	-	-	627		•
Locomotive service,		-	-	-	-	-	6,585		
Passenger train service,	-	-	-	-	-	-	2,020		
	-	-	-	-	-	-	040 والم	0 I	

D	. <b>.</b>	1:_	_							<b>\$</b> 382	45
Passenger				-	•	•	-	-	-	1,617	
Mileage o Freight to				-	-	-	-	- ,	-	3,058	
Freight to	ein sur	mlies	-	-	-	-	-	•	-	5,000 54	
Mileage o				-	-	-	-	-	_	<b>52</b> 8	
Telegraph				ance a	and o	perati	ng.	_	_	61	<b>52</b>
Damage a							-	_	-	11	03
Damages					-	•	-	-	_	<b>28</b> 8	
Personal				-	-	-	-	• -	-		58
Agents ar			ice,	-	-	-	-	-	-	7,085	
Station su	ipplies,	- •	-	-	-	-	-	-	-	401	76
Total	, -	-	_	-	-	-		-	-	* \$29,559	02
			CLAS	s <b>4</b> .—(	<del>Je</del> nero	ıl Exp	enses	) <b>.</b>			
Salaries o	f the o	eneral d	officer	s of t	he co	mnan	♥.			<b>\$</b> 2,571	04
Salaries o	f clerks	in ger	eral	offices		I	., _	-	-	1,867	
Law expe		-	_	_	-	_	_	_	_	208	
Insurance		_	_	-	_	-	_	_	-	205	
Stationer					-	-	-	-	-	927	7.7
Outside a		and ad	lvertie	sing,	-	-	-	-	-	1,186	
Continger	10105,	-	-	-	-	-	-	-	-	301	
Taxes,	-	-	-	-	-	-,	-	-	-	1,942	40
Total	, -	-	-	-	-	-	,-	-	-	<b>\$</b> 9,210	10
		REC	APIT	ULAT	TION	OF E	XPE	NSES.			
								Per Cer Exper			
Maintena	nce of x	vav and	l buil	dings	_			· -	1.13	<b>\$12,250</b>	07
Maintena						_	_		1.98	6,939	
Conductin				_		_	_	5.	1.00	29,559	
General e	xpense	s, inclu	ding	taxes,	-	-	-	18	5.89	9,210	10
Total	operat	ing exp	enses	and	taxes	, -		10	0.00	<b>\$57,95</b> 8	<b>62</b>
Operating								<b>\$1,2</b> 85	11		
Operating for trai	expens	ses and	SOLUTION OF THE PROPERTY OF TH	per t	ruin 1 967	miles miles	uII,		67		
Proportio	n of op								01		
Michiga Main line		-	-	-	-	-	-	57,958	62		
Tota	l propo	rtion of	expe	nses	for M	lichig	an,			57,958	62
Percentag Net earni	ngs per	mile o	f road	l, -	s,—59 -	).86% -		861	53		
Net earni	ngs per	train 1	nile,	-	-	-	-		44		

**59** 

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Saginaw to St. Louis, January, 1873. From Alma to Ithaca, March, 1883.

### MAIN LINE.

In Michigan, from Paines to St. Louis,	Miles. 100ths. 28.60	Miles. 100ths.
Total length completed,		28.60
BRANCHES.		
Ithaca, from Alma to Ithaca,	6.90	
Total length of branches owned by company,		6.90
Total length of branches owned by company in Michigan, Total length of road belonging to this company, Total length of road belonging to this company in	6.90	35.50
Michigan, Aggregate length in Michigan, of sidings, spurs, and other tracks not above enumerated, Aggregate length of tracks in Michigan belong-	35.50	5.64
ing to this company, computed as single track, Gauge of track, 4 feet 8½ inches.		41.14
Proprietary or Leased Roads Operated by this	Company.	

Name, description and length of each:			
Saginaw & Grand Rapids railroad, St. Louis to Alma, Jackson, Lansing & Saginaw, East Saginaw to Paines,	- -	3.60 6.00	3.60 6.00
Total,	-	9.60	9.60
Total miles operated by the company,	-	45.10	45.10
Number of Bridges and Trestles in Michigan	n.	•	
Wooden bridges, number of, 24; aggregate length, Wooden Trestles, number of, 4; aggregate length,	, fee , fee	t, t,	. 153 347
Total,		-	500

### Crossings-Railroad and Highway.

What railroads cross your road at grade in this State and at what locality? Toledo, Ann Arbor & North Michigan railroad at St. Louis.

Number of crossings of highways at grade in this State,	
Number of crossings of highways at grade in this State at	
which there are gates or flagmen,	None.
Number of crossings of highways over or under railroad,	None.

4	4	٦	•	٦	
1		7	ú	٠	١

Number of highw Are your frogs an 174, session law How are they trea	d guard rai	ils bloo foot g	$\mathbf{cked}$	as rec	auire	d by ced w	act ith p	None. Yes. olank.	
Number of station Same in Michigan	ns on whole	line,	- -	-	- -	-	-		17 17
		$\boldsymbol{E}^{t}$	mploy	és.		•			
Number persons n by company, inc Same in Michigan	cluding offi ı, -	cials, -	-	-	oads - -	opera - -	ted - -		63 63
Classify your emp	oloyés as pe	r follo	wing	list:					Number.
Engineers, Firemen, Laborers, Shopmen, Others,  How many miles of	REP	AIRS AFencing	AND Fou?	- - - RENEW (ichiga - omple	······································	- - - - -	- - - ·		24 3 3 4 . 28 4 15
sides of your t which needed: All fenced.	rack in M	lichiga	in, a	nd th	e cou	inties	m		
	R	oad Be	ed and	d Trac	k.				
Number of track and Average length of Average number of new times. Number of new times and the Average number of New rails put in Steel, tons 250.50, Total miles of tracks.	sections,— of men in exes put in we se put in traces of new ties of track: of miles 3.15.	-miles ach se hole li ack in per m	ction ine di Mich ile of	gang uring	the y	ear,	-	5.63 3.15	7 3 14,866 14,866 381
Total lines of trac	CK IBIU WIUI	I new I	.a.115,	-	-	-	-	0.10	
Timber culverts r With sewer pipe, New bridges built	eplaced dui —number,	•	e yea		t <b>s.</b> - -		-	1	1 None.
		- J;	•	-	-	-	_		

			~-~	
RO	11.10	11 N ( +	STOCK.	

IN LUI	TMR 9	100	IX.		<b>-</b> .
				Number.	Present Estimated Value.
Number of locomotives of 20 to 30	tons	wei	ght.		
exclusive of tender,	-	-	-	3	<b>\$15,000 · 00</b>
Total,	-	-	-	3	<b>\$</b> 15,000 00
Number of passenger cars—8 wh	eel, in	clu	ling		
official cars,	. *		-	2	5,000 00
Number of express and baggage ca	ra	-	-	ī	2,000 00
Number of box freight cars,	•2.09	-	•	10	3,000 00
Number of platform sons	-	-	-	40	11,000 00
Number of platform cars,	-	-	-		
Number of conductors' way cars,		-	-	2	500 00
Total,	_	-	-	55	<b>\$</b> 36,500 00
Number of locomotives equipped	with	100	wer		
brakes.	_	_	_	${f 2}$	
Number of passenger-train cars e	quipp	ed v	vith		
power brakes,		_	_	3	
Number of freight cars equipped	d with	100	wer		
brakes.		· F-		None.	
What patterns of power brakes have	יים אים מחמי חיי	in 1	hre and		flocomotives
and cars with each? Westingho and 3 cars.	use au	tom	atic air	brake, 2	locomotives
Are your freight cars being equipp	ed wit	h ai	utomatic	couplers	as required
by Act. No. 147, Session Laws of	f 1885	2 ]	Vo		
What pattern or patterns have you				None	
How are your passenger cars hea					<b>V</b> O
TIOM are North bassenger cars near	wou!	SW	am mom	юсощои	Y C.

### MILEAGE, TRAFFIC, ETC.

### Train Mileage.

Miles run by passenger trains during the Miles run by freight trains during the ye	year, . ar, .	. <u>-</u>	58,505 28,762
Total mileage of trains earning rever	iue,		87,267
Passenger Tr	affic.		
Number of through passengers carried, Number of local passengers carried, Total number of passengers carried,	Numbers and Quantities 902 97,525 98,427	. Miles.	Rate. Dollars. Cents.
Total passenger mileage, or passengers care Average distance traveled by each passen Average amount received from each passe Average rate of fare per mile for through Average rate of fare per mile for local pa Average rate of fare per mile for all passen	ger, enger, passengers, ssengers,	-	\$0 49.12 02.81 02.68 02.68

### Freight Traffic.

			•	r i ceyn		yev.				
Number of to Number of to	ons of toons of	hrough local fi	freigh	ght ca t carı	rried, ried,	and Qu	mbers antities. 947 768	Mil	es. Dol	Rate. lars. Cents.
Total to	ns of f	reight (	carri	ed,		57,	715			
Total mileage Total mileage	e of the e of lo	rough cal frei	freig ght,	ht, -	-	- -	-	87 1,312	7,401 1,346	
Total fre	eight n	nileage,	or t	ons c	arried	one	mile,	1,399	,747	٠
Average ton Average ton Average amo	haul f	or loca or all f	l frei reigh	ght, it, _	-	- - al,	-	_	45 24 24	<b>\$</b> 0 75.70
Average rate	nor to	n nor i	mila	FOOD	vad fo	r'thr	onah f	raight		03.10
TIADIORO IOM	hor w	'n hor i	п <del>по</del> ,	TOCOT	vou il	' UIII'	Վաջա . լ	-i ArRIII	<b>'</b> 9	
Average rate	per to	on per i	nue,	rece1	ved to	or loca	ai freig	ght,	-	03.12
Average rate	per to	n per r	nile.	recei	ved fo	r all :	freight		_	03.12
	<u>.</u>							•	_	
		Freight	Foru	varded	l at Mi	chiaai	n Statio	ns.		
										m
49 4										Tons.
(train,	-	-	_	-	-	-	-	-	-	4,725
Flour,	_	_	_	_	_	_	_	_	_	729
Provisions ()	beef n	ork. laı	rd. et	tc.).						671
Animals,	000 <b>1</b> , p	· · · · · · · · · · · · · · · · · · ·	. u, o.	,	-	-	-	-	-	181
	143		<b>.</b> -	-	-	-	-	-	-	
Other agricu	iturai	produc	ts,	-	- •	-	-	-	-	895
Lumber and	forest	produc	ete,	-	-	_	-	-	-	<b>33,158</b>
Coal,	_	_	-	_	_	-	-	_	_	<b>420</b>
Plaster, lime	and o	ement.								862
Salt,		,	_	_	_	_	_	_	_	5,773
	-	-	-	-	-	-	-	-	-	394
Petroleum, Pig and bloo Other iron as		<u>-</u>	-	-	-	-	-	-	-	
Pig and bloo	m iron	1, -	-	-	-	-	-	-	-	2
Other iron at	nd cas	tings,	-	-	-	-	-	-	-	539
Stone, brick	and sa	ınd,	_	_	_	_	-	-	_	766
Manufacture	s.—ari	icles sl	aggir	$\operatorname{d}$ fro	m poi	nt of	produc	ction.	_	1,203
Merchandise	and o	ther ar	ticles	a not	eniim	erated	above	A		7,397
1010101101101	una o	unor ur	010101				. 40010	-, -		
Total to		·		- :-1 //	- 7	-	- -	- Dougl	-	57,715
	10	nnage o	f Art	icies 1	ranspe	rtea	Entire	noaa.		
									Tons.	Per Cent.
Grain,								_	· 4,725	8.18
Telloum	-	-	-	-	-	-	-	-	729	1.26
Provisions (	<b></b>	L 1		١- ١	-	-	-	-		
Lionsions (	oeer, p	OFK, 181	ru, e1	w.),	-	-	-	-	671	1.15
Animals,	_ <b>-</b> _	•	_	-	-	-	-	-	181	.31
Other agricu				-	-	-	-	-	895	1.55
Lumber and				_	_	_	-	-	33,158	<b>57.45</b>
Coal,		F	,	_	-				420	.73
Plaster, lime		omont	-	-	-	-	-	-	862	1.49
riaster, ilme	вши с	ашапі,		-	-	-	-	-		
Salt,	-	-	-	-	-	-	-	-	5,773	10.04
Petroleum,	-	-	-	-	-	-	-	-	394	.67
•	<b>59</b>									
	30									

	•		
		Tons.	Per Cent.
Pig and bloom iron,		<b>2</b>	.03
Other iron and castings,		539	.92
Stone, brick and sand,		766	1.32
Manufactures,—articles shipped from	point of produc-	• • •	
tion,	point or produc-	1,203	2.08
Merchandise and other articles not en	nmerated above	7,397	12.82
more designation and of the control	amoratou abovo,		
Total tons carried,		57,715	100.00

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. It handles its own freight.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Western Union Telegraph Company; 38.2 miles.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

### KILLED.

Killed, None.

### INJURED.

March 26, James Murphy, Merrill. Attempted to get on front end of way car of moving train; Murphy responsible.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Cause of Accident,		Killed.		Injured,			
	Passengers.	Employés.	Others.	Passengers.	Employés,	Others.	
Collisions							
oupling cars.							
Derailments.							
alling from trains							
roes							
rogsetting on and off trains							
lighway crossings							
fiscellaneous							
verhead obstructions							
Trespassers on trains		l					
respassers on tracks				i			
-		i	1	1	1	l	
						I	
Total			1	l	i	l	
TOMT							

Employés.	Killed.	Injured.	Total.
Baggagemen			
Brakemen. Conductors			
Engineers Firemen			
Laborers. Shopmen			
Yardmen Not classified above			
Total			
	l	<u> </u>	

STATE OF MICHIGAN, COUNTY OF KENT, ss.

Chas. M. Heald, General Manager, and U. B. Rogers, Auditor, of the Saginaw Valley & St. Louis Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

Signed.

[L. S. OF R. R.]

CHAS. M. HEALD. U. B. ROGERS.

Subscribed and sworn to before me this 17th day of May, A. D. 1890.

THOMAS C. CLARK, Notary Public.

### ANNUAL REPORT

#### OF THE

### SAGINAW & GRAND RAPIDS RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed May 22, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.

Secretary, Treasurer and Transfer Agent, J. E. HOWARD, Grand Rapids, Mich.

### DIRECTORS.

H. H. Hunnewell, Boston, Mass. Jno. H. Burnham, Boston, Mass. Geo. O. Shattuok, Boston, Mass. F. H. Damon, Boston, Mass. W. G. Means, Boston, Mass. Chas. L. Young, Boston, Mass. Chas. Mereiam, Boston, Mass. N. Thayer, Boston, Mass. J. H. Blake, Boston, Mass. A. H. Hardy, Boston, Mass. E. V. R. Thayer, Boston, Mass. W. Hunnewell, Boston, Mass. Geo. Whitney, Boston, Mass.

Terms expire July 9, 1890.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—October	er 12	, 18	78.				
Number of stockholders at date of last election, -	-	-	-	-	-	-	28
Number of stockholders in Michigan at same date,	-	-	-	-	-	-	None.
Amount of full paid stock held in Michigan at same de	ate,	-	-	-	-	-	None.
Date of annual meeting of stockholders,—Second Wed	lnesd	lay i	n Ju	ly.			
Fiscal year of company ends,—December 31.		-		-			
General offices of the company are located at Detroit.	Mic	h.					

#### REMARKS.

This company's road is leased to the Saginaw Valley & St. Louis Railroad Company during the corporate existence of both organizations. That company paying a dividend of ten per cent upon the stock of this company as rental, two per cent of which is set aside to purchase the stock of this company for the use and benefit of the Saginaw Valley & St. Louis Railroad Company.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of as Par value of shares, \$100 00 Average price received per share, 100 00 No. of shares issued, 700 Amount paid in on common, _	**************************************		\$70,000 00						
Total amount paid in, as per books of the compaid in per mile of road owned by company,—miles, 3.60,	pany, \$19,444	- 44	70,000 00						
RECAPITULATION.									
Total amount of stock, Stock and debt per mile of road,—3.60 miles,		-	70,000 00 19,444 44						
COST OF ROAD AND EQUIPMENT.									
Total Cost for Construction and Equipment of Road of	and Branch	es Built	by Company.						
Total expended for construction,  Average cost of construction per mile of road,	_ not includ	ing	<b>\$</b> 70,000 00						
sidings,—3.60 miles, Proportion of cost of construction for Michigan		- -	19,444 44 70,000 00						

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: May, 1879.

#### MAIN LINE.

Length completed in Michigan,	-	Miles, 100ths, Miles, 100ths, 3.60
Total length completed,	-	3.60
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Gauge of track, 4 feet, 81 inches.	-	3.60

STATE OF MASSACHUSETTS, SS. COUNTY OF SUFFOLK,

Nathaniel Thayer, President, and James E. Howard, Secretary, of the Saginaw & Grand Rapids Railroad Company, being duly sworn, depose and and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF B. R.]

Signed,

NATHANIEL THAYER. JAMES E. HOWARD.

Subscribed and sworn to before me this 24th day of March, A. D. 1890, by Nathaniel Thayer, President.

F. H. DAMON, Notary Public.

STATE OF MICHIGAN, SS. COUNTY OF KENT,

Subscribed and sworn to before me this 21st day of March, A. D. 1890, by James E. Howard, Secretary.

HENRY H. JAMES, Notary Public.

### ANNUAL REPORT

#### OF THE

### SAGINAW & WESTERN RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed May 22, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.

Secretary, Treasurer and Transfer Agent, J. E. HOWARD, Grand Rapids, Mich.

### DIRECTORS.

Chas. F. Adams, Boston, Mass.
Chas. Merriam, Boston, Mass.
Geo. O. Shattuck, Boston, Mass.
Jas. H. Blake, Boston, Mass.
Nathaniel Thayer, Boston, Mass.
E. V. R. Thayer, Boston, Mass.
Chas. L. Young, Boston, Mass.
Jno. A. Burnham, Boston, Mass.
A. H. Hardy, Boston, Mass.

Terms expire May 14, 1890.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—June 7, 1883.

Number of stockholders at date of last election, 9

Number of stockholders in Michigan at same date, None.

Amount of full paid stock held in Michigan at same date, None.

Date of annual meeting of stockholders,—Second Wednesday in May.

Fiscal year of company ends,—December 31.

General offices of the company are located at Detroit, Michigan.

### REMARKS.

The road of this company is leased for the term of thirty years from July 1, 1883, to the Detroit, Lansing & Northern Railroad Company, that company paying the interest on the bonds and a dividend of seven per cent per annum on the stock of this company as rental.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of asso Par value of shares, \$100 00 Average price received per share, 100 00	ciation,	-	<b>\$</b> 675,000 <b>00</b>
No. of shares issued, 45 Amount paid in on common,	<b>\$4,</b> 500	00	4 500 00
Total amount paid in as per books of company, Paid in per mile of road owned by company,— 42.57 miles,	- <b>\$</b> 105	71	4,500 00

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When	Due.	Where Pays	able.	Amount.
First mortgage bonds	6%	1918		Boston		<b>\$586,000 00</b>
Total funded debt						<b>\$566,000 00</b>
UNI	FUNDED	DEBT.				
Unfunded debt,	-		-	-	-	None.
REC	CAPITUI	LATION.				
Total funded debt,	. <b>.</b>	-		:	<b>\$</b> 566	5,000 ,00
Total debt liabilities,		-			<b>\$</b> 566	3,000 00
Amount of debt liabilities per miles, Total amount of stock and debt, Stock and debt per mile of road		-	-42.57  		566	3,295 75 3,105 71 3,401 46
INTEREST	N THE	FUNDED	DEBT.			
What is the amount of same du Was it paid for the last year?			-	-	\$33	3,960 00
COST OF RO	DAD AI	ND EQUI	PMENT.			
Total Cost for Construction and Equ	ipment	of Road, as	nd Bran	ches Built	by (	Company.
Total expended for construction Average cost of construction per sidings,—42.57 miles,  Proportion of cost of construction	mile o	-		ding - -	13	8,400 00 8,117 22 8,400 00
Total expended for equipment, Average cost of equipment per	mile—4	<b>12.57</b> ,	 	-	19	2,100 00 284 24

Total expended for construction and equipment,  Average expended for construction and equipment pe								\$570,500 00
milo 49 57	•				equipm		-	13,401 46

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: August, 1886.

#### MAIN LINE.

Length completed in Michigan, Alma to Howard City,	Miles. 100ths.	Miles. 100ths.
Total length completed,		42.57
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Aggregate length of sidings, spurs, and other	42.57	42.57
tracks not above enumerated, Same in Michigan,	9.12	9.12
Aggregate length of tracks belonging to this company, computed as single track,  Same in Michigan,	51.69	51.69

Gauge of track, 4 feet 8½ inches.

STATE OF MASSACHUSETTS, SS.

Nathaniel Thayer, President, James E. Howard, Secretary, of the Saginaw & Western Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, NATHA

NATHANIEL THAYER. JAMES E. HOWARD.

Subscribed and sworn to before me this 24th day of March, A. D. 1890, by Nathaniel Thayer, President.

F. H. DAMON, Notary Public.

STATE OF MICHIGAN, SS. COUNTY OF KENT,

Subscribed and sworn to before me this 21st day of March, A. D. 1890, by James E. Howard, Secretary.

### ANNUAL REPORT

#### OF THE

# MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed May 22, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, THOS. LOWRY, Minneapolis, Minnesota.

Vice President, R. B. LANGDON, Minneapolis, Minnesota.

Secretary and Treasurer, M. P. HAWKINS, Minneapolis, Minnesota.

Auditor, C. W. GARDNER, Minneapolis, Minnesota.

General Manager, F. D. UNDERWOOD, Minneapolis, Minnesota.

Division Superintendents, W. M. KELLLIE, St. Paul, Minnesota.

Chief Engineer, W. W. RICH, Minneapolis, Minnesota.

General Passenger Agent, JNO. G. TAYLOR, Minneapolis, Minnesota.

Traffic Manager, H. L. SHUTE, Minneapolis, Minnesota.

Attorney, M. B. KOON, Minneapolis, Minnesota.

#### DIRECTORS.

THOS. LOWRY, Minneapolis, Minnesota.
R. B. LANGDON, Minneapolis, Minnesota.
W. D. WASHBURN, Minneapolis, Minnesota.
H. E. FLETCHER, Minneapolis, Minnesota.
JOHN MARTIN, Minneapolis, Minnesota.
J. S. PILLSBURY, Minneapolis, Minnesota.
C. H. PETTIT, Minneapolis, Minnesota.
Terms expire September 17, 1890.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—June 12, 18	388.								
Number of stockholders at date of last election,	-	-	-	-	61				
Number of stockholders in Michigan at same date,	-	-	-	-	None.				
Amount of full paid stock held in Michigan at same date,	-	-	-	-	None.				
Date of annual meeting of stockholders,—Third Tuesday in September.									
Fiscal year of company ends,—June 30.									
General offices of the company are located at Minnespolis,	Min	nesot	8.						

### GENERAL EXHIBIT.

<del></del>			Dı	BIT.	CREDIT.
Total income,	-	-			<b>\$</b> 1,651,412 11
Total expenses, including taxes,	-	-	<b>\$1,063,066</b>	<b>75</b>	
Net income,	-	-			<b>\$</b> 588, <b>3</b> 45 36
Interest on funded debt, Rentals of buildings, tracks, etc.,	-	-	<b>\$</b> 962,124 84,976		<b>\$1,047,101</b> 72
Balance for the year,	-	-	<b>\$4</b> 58,756	36	
Balance (profit and loss) last year	<b>,</b> -	-	709,336	93	•
Items not included in above, as fo Development and improvement,		-	7,473	71	
Balance forward to next year,	-	-			<b>\$1,175,567</b> 00
			<b>\$1,175,567</b>	00	<b>\$1,175,567</b> 00
ANALYSIS O	F CAP	'ITA	L STOCK.		
Amount authorized by charter or Par value shares, Number of shares issued,	article \$100 210,	00	association,	-	<b>\$</b> 21,000,000 00
*Amount on common, *Amount on preferred,	- -	- -	<b>\$14,000,000</b> 7,000,000		
Total amount as per books of th	e com	pany	·,	-	21,000,000 00
Per mile of road owned by comp  —787.32 miles,	any,	-	<b>\$</b> 26,672	76	•

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, Character, and Date of Issue.	Rate of Interest,	When Due,	Where Payable,	Amount Outstanding,
First mortgage Minneapolis & Pacific bonds issued January 1, 1886.  First mortgage Minneapolis, Sault Ste. Marie & Atlantic bonds issued January 1, 1886  First mortgage Minneapolis, St. Paul & Sault Ste. Marie consol. bonds issued July 1, 1888	5% 5%	January 1, 1936 January 1, 1926 July 1,1988	New York New York	\$4,290,000 00 10,000,000 00 6,710,000 00
Total funded debt				\$21,000,000 00

<sup>\*</sup> Issued for stock of constituent companies under articles of consolidation.

### UNFUNDED DEBT.

For what Incurred,		Is the	Same to	be Fund	ied, or How L	tabingi	ed.	Amount	
For construction	To	be paid	d from	earning sale of	s of the ros real estate.	d		\$107,7! 88,00	56 16 00 00
For miscellaneous For current balances	To	be paid	from	earning	s of the roa	à		981,46	57 O7
Total unfunded debt								\$1,122,2	28 28
		RECAP	ITUL	ATION	۲.	-			
Total funded debt,  Total unfunded debt,		-	-	-	 		_ <b>\$</b>	21,000,000 1,122,223	
Total debt liabilities,	ı	-	-	-	<u>.</u> .		_ \$	22,122,223	23
Amount of debt liabilities	s pe	r mile	of r	oad,—	-787.32 r	niles	,	<b>2</b> 8,098	13
Total amount of stock	k an	d deb	t,	-	<b>.</b> .	-	_ \$	43,122,223	23
Stock and debt per mile	of ro	oad,—	787.8	32  mil	les,	-	-	<b>54,77</b> 0	89
GEN	ERA	L BA	LAN(	Œ SE	ŒET.—D	R.			
*Construction account, Equipment account,	•	-	-	- -	\$31,568,9 2,566,		12	34,134,543	21
Other investments: Aberdeen, Bismark & l Real estate, Preliminary surveys, Flour house at St. Albe	-	-	', - -	•	20,8	224 ( 892 8 805 7 867 1	09 81 72		
Cash items: Cash, Due from agents,	-	- -	- -	-	<b>\$</b> 159,' 96,	711 ' 139 (		5,567,789	
Other assets:  Materials and supplies Debit balances from of individuals, Capital stock held by of First mortgage M., St. solidated bonds held Suspense account,	om om P.	pany, & S. S	8. <b>M</b> .	-	225,0 1,500,0	873 4 600 (	45 00 00	255,851	
Income account,	_	_	_	_				1,988,371 1,175,567	
Total,	-	_	-	_			8	43,122,223	

<sup>\*</sup> Includes \$10,370.25 charged in error, which will be credited back in January, 1890.

1	7	7	
- 4		4	

### GENERAL BALANCE SHEET.—Cr.

Capital stock, Funded debt, Unfunded debt: Interest unpaid, Notes payable, Vouchers and ac Other liabilities:		- - - - - - - - -	- - -	-	-	\$21,000,000 21,000,000 \$489,375 440,756 73,418	00 00 16 80	<b>\$</b> 42,000,000	00
Pay rolls, Taxes unpaid, Due foreign roa	ds,	- - -	-	-	- - -	79,491 18,808 20,373	65	1,122,223	23
Total,	-	-	-	-	-			\$43,122,223	
	COS'	r of	ROAI	AND	EÇ	UIPMENT.			
Total Cost for Const	ruction	and I	Equip	nent of	Roc	ad, and Branci	hes I	Built by Compo	ıny.
Total expended fo Average cost per 787.32 miles, Proportion of cost	for M	Iichig	- gan,	1 <b>92.</b> 0	- 1 m	iles, _	-	\$34,134,643 43,355 8,324,687 IE YEAR.	49
			MA	IN LI	NE.				
Miscellaneous, New buildings, New fences, Machinery and too New locomotives, New cars,	- - ols, - -	-	-	- - - -	-	\$272,872 152,294 14,477 11,397 765 61,141	37 06 21 29	<b>\$</b> 512,948	21
			BR	ANCH	Z8.				
Miscellaneous, New buildings,	-	-	-	-	-	584 20	20 17	604	37
Total charges	to pr	opert	y acc	ount,	_			\$513,552	58
Property sold and			-	-	_			120,890	<b>46</b>
Net addition	to pro	perty	accor	ınt,	-			\$392,662	12

### ANALYSIS OF EARNINGS.

## PASSENGER EARNINGS.

Main line and branches:						
Local fares,	_	_	<b>\$</b> 185,484	91		
Through fares,	-	-	122,080	83		
Total passenger fares,	-	-	<b>\$</b> 307,565	74		
Express and baggage,	_	_	8,759	94		
Maila	_	_	33,563	38		
Other sources,	-	-	28,613			
Total passenger department es	rnings	, ,		_	\$378,502	89
Proportion for Michigan			<b>\$110,396</b>	ΔΔ		
Proportion for Michigan,	-	-	<b>\$110,030</b>	70		
Per train mile, Per mile of road,	-	-	473			
•	-	-	_,_	22		
FREIGH	T EAR	INGS	3.			
Main line and branches:						
Local traffic,	_	-	\$683,785	44		
Through traffic,	-	-	537,983	<b>55</b>		
Total traffic,	-	_ {	<b>\$</b> 1,221,768	99		
Other sources,	-	-	23,022	51	•	
Total freight department earn	inaa	•			1,244,791	50
Total Holghe department carn	mgs,	-			•	
<del>-</del> -	mgo,	-	<b>\$</b> 269 936	73		
Proportion for Michigan,	- -	-	<b>\$269,936</b>		•	
<del>-</del> -	- - -	- - -	\$269,936 1 1,556	<b>4</b> 0		
Proportion for Michigan, Per train mile, Per mile of road,	- - -	-	1	<b>4</b> 0		39
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings,	-	-	1,556	40 28	\$1,623,294	39
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of	- - - of road,	-	1,556 - - \$2,029	40 28 49		39
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train in Miscellaneous receipts from opera	of road, mile,	cour	1,556 - \$2,029 - 1	40 28		39
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train Miscellaneous receipts from opera other than for transportation, as	of road, mile,	cour	1,556 	40 28 49 14		39
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train Miscellaneous receipts from opera other than for transportation, as From telegraph,	of road, mile,	cour	1,556 - \$2,029 - 1 nt, - \$7,501	40 28 49 14		39
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train Miscellaneous receipts from opera other than for transportation, as	of road, mile,	cour	1,556 	40 28 49 14	\$1,623,294	
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train Miscellaneous receipts from opera other than for transportation, as From telegraph,	of road, mile,	cour	1,556 - \$2,029 - 1 nt, - \$7,501	40 28 49 14		
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train Miscellaneous receipts from opera other than for transportation, as From telegraph,	of road, mile, ating ac follows	ecour s: -	1,556 - \$2,029 - 1 nt, - \$7,501	40 28 49 14	\$1,623,294	72
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train Miscellaneous receipts from opera other than for transportation, as From telegraph, From other sources,  Total earnings from operation	of road, mile, ating acfollows	cour :: - -	1,556 - \$2,029 - 1 nt, - \$7,501 - 20,616	40 28 49 14 66 06	\$1,623,294 28,117	72
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train Miscellaneous receipts from opera other than for transportation, as From telegraph, From other sources,  Total earnings from operation Total earnings per mile of road, Total earnings per train mile,	of road, mile, ating ac follows	cour : - - d,	1,556 - \$2,029 - 1 nt, - \$7,501 - 20,616 - \$2,064 - 1	40 28 49 14 66 06	\$1,623,294 28,117 \$1,651,412	72 11
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train Miscellaneous receipts from opera other than for transportation, as From telegraph, From other sources,  Total earnings from operation	of road, mile, ating ac follows	cour : - - d,	1,556 - \$2,029 - 1 nt, - \$7,501 - 20,616 - \$2,064 - 1	40 28 49 14 66 66 06	\$1,623,294 28,117	72 11
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train Miscellaneous receipts from opera other than for transportation, as From telegraph, From other sources,  Total earnings from operation Total earnings per mile of road, Total earnings per train mile,	of road, mile, ating ac follows  of road	cour : - - d,	1,556 - \$2,029 - 1 nt, - \$7,501 - 20,616 - \$2,064 - 1	40 28 49 14 66 66 06	\$1,623,294 28,117 \$1,651,412	72 11 55
Proportion for Michigan, Per train mile, Per mile of road,  Total transportation earnings, Transportation earnings per mile of Transportation earnings per train Miscellaneous receipts from opera other than for transportation, as From telegraph, From other sources,  Total earnings from operation Total earnings per mile of road, Total earnings per train mile, Proportion of taxable earnings for	of road, mile, ating acfollows	cour : - - d,	1,556 - \$2,029 - 1 nt, - \$7,501 - 20,616 - \$2,064 - 1	40 28 49 14 66 66 06	\$1,623,294 28,117 \$1,651,412 405,536	72 11 55 11

### ANALYSIS OF EXPENSES.

### CLASS 1.—Maintenance of Way and Buildings.

Repairs of road wa	v and	track	_	_	_			_	<b>\$134,</b> 555	14
Renewals of rails,		-	•	-	-	_	(cred	it)	18	
Renewals of ties							•	-	$4\overline{27}$	
Repairs of bridges,	inclu	dina .	onlva	- 17fe 01	nd cat	م مالح	morda	-	7,034	63
Repairs of fences, r	mora	mondin	Carre	ng ai	oma	oro 8	uarus,	-	875	
Repairs of building	.oau c	LOBBIL	gs, a	na sri	gno,	-	-	-	3,336	
Mincellaneous	ζ8 <b>,</b>	-	-	-	-	-	-	-		
Miscellaneous,	ζS, -	-	-	-	-	-	-	-	249	<b>00</b>
Total,								_	<b>\$146,458</b>	89
	-		-	-		•	<u>-</u>	-	<b>4110,100</b>	•
CI.AI	ss 2.— <i>1</i>	Mainte	nance	e of M	otive_l	Power	r and Co	178.		
Repairs of locomot	ives								<b>\$</b> 51,871	80
Repairs of locomot Repairs of passeng	or cor	•	-	-	-	•	-	-	19,803	76
Repairs of freight	OT COT	ο,	-	-	-	-	-	-	53,410	40
Repairs of freight Repairs of machine	Cars,	d +001	- !~	-	-	-	-	-	4,538	
repairs of machine	эгу ап	a 100	ls,	-	-	-	•	-	4,000	99
Total,								_	\$129,624	95
•	•	-	<u>-</u>	-	_	-	-	-	\$120,02 <del>1</del>	<i>90</i> .
	CLAS	s 3.—(	Condu	cting	Trans	porta	tion.			
Switching charges,		_	_	_	_	_	_	_	<b>\$9</b> 8	12
Final for locomotive	og .	_	_		_	-	_	_	202,676	05
Water supply, Oil and waste, Locomotive service Passenger train ser Passenger train sup Mileage of passeng	,	•	-	-	-	•	-	-	12,884	
Oil and weste	-	-	-	-	-	-	•	-	10,334	19
Locomotive service		-	-	-	-	-	-	-	101,463	
Degger or train gor	, 	-	-	-	-	-	<b>-</b> .	-	24,495	
Dance and train set	l:	• .	-	-	-	-	-	-		
rassenger train su	bbrres	•	-	-	-	-	·		5,738	0Z
Milieage or passeng	er car	8,	-	-	-	-	(credi	lt)	2,731	40
Freight train service Freight train supposed Mileage of freight Telegraph expenses	ce,	-	-	-	-	-	-	-	56,866	56
Freight train supp.	lies,	-	-	-	-	-			3,874	
Mileage of freight	cars,	-	-			-	(credi	t)	35,187	27
Telegraph expenses	s, mai	ntena	nce a	nd op	perati	ng,	-	-	28,322	95
						-	-	-	2,483	
Damagas to managas	4	3	۱.		_	_	-	_	6,196	04
Personal injuries, Agents and station Station supplies, Warran of switchman	_	_	_	_	_	_	_	_	4,859	88
Agents and station	service	e.	_	_	_	_	_	_	76,653	89
Station supplies.	_						-		5,229	89
Station supplies, Wages of switchme Operating Gladston	n and	wate	hmer	n	-	-	-	_	36,521	
Operating Gladston	ne doc	ks		-,	-	•	-	•	31,541	
Sleeping and dinin						-	•	-	16,457	
. Dieeping and dimin	S COL	CAPCI	шось,	-	-	-	-		10,101	
Total,	_	_	_	_		-	_	_	<b>\$</b> 588,780	21
•		Ct.Agg	4G	onera	l Expe	m 900			•	
					-					
Salaries of the gen	eral o	fficers	of the	16 COI	npany	7, -	_	-	<b>\$</b> 37,625	
Salaries of clerks in	n gene	eral o	ffices,	, -	-	-	-	-	39,184	
Law expenses,	-	-	-	-	-	_	-	-	10,611	
Insurance,	-	-	-	-	-	_	-	-	6,412	<b>56</b>
~ · · · · · · · · · · · · · · · · · · ·	nting,	-	-	_	_	_	-	_	18,211 25,572	67
Outside agencies a	nd aďv	vertisi	ing.	-	_	_	_	-	25,572	20
Contingencies, _		_	_	_	_	_	_	-	39,359	26
Taxes,	-	-	-	_	•_			_	21,224	77
	-	-	-	-	-	-	•	Ξ.		
Total,									\$198,202	70
Total,	-	-	-	-	-	-	-		#100,202	• •

### RECAPITULATION OF EXPENSES.

Maintenance of way and buildings,	Per Cent of Expenses.  13.78 12.19 55.38 18.65	\$146,458 89 129,624 95 588,780 21 198,202 70
Total operating expenses, and taxes,	100.00	<b>\$1,063,066 75</b>
Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—1,428,829	<b>\$1,329</b> 08	
miles, Proportion of operating expenses and taxes	75	
for Michigan, main line,  Total proportion of expenses for Michigan, Percentage of expenses to earnings, 64.3%.	<b>\$279,406</b> 72	\$279,406 72
Net earnings per mile of road,	<b>\$</b> 735 57 <b>41</b>	

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:
From Sault Ste. Marie, Michigan, to Boynton, Dakota, January 1, 1888.
From Dresser Junction to St. Croix Falls, Wisconsin, September 12, 1887.
From Cardigan Junction to St. Paul, Minnesota, February 22, 1888.

### MAIN LINE.

	Miles. 100ths.	Miles. 100ths.
In Michigan, from Sault Ste. Marie to Wisconsin State line, In Wisconsin, from Michigan State line to Minnesota State line, In Minnesota, fron Wisconsin State line to Dakota	192.01 262.80	
State line,	223.99	
In Dakota, from Minnesota State line to Boynton, Dakota,	99.13	
Total length completed,		777.93
BRANCHES.		
St. Paul, from Cardigan Junction to St. Paul, St. Croix, from Dresser Junction to St. Croix Falls,	5.34 4.05	
Total length of branches owned by company,	)	9.39
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated,	192.01 21.83	787.32

1889.] MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE R. R. CO. 481
Aggregate length of tracks in Michigan belonging to this company, computed as single track, 2 213.84
Gauge of track, 4 feet 8½ inches.
Proprietary or Leased Roads Operated by this Company.
Name, description, and length of each:  Operated under trackage rights.  Northern Pacific R'y tracks at Minneapolis, 4.38 St. Paul & Duluth R'y tracks at St. Paul, 2.65 St. Paul, Minneapolis & Manitoba R'y between Minneapolis and St. Paul (operated since July 1, 1889), 11.00
Total,
Total miles operated by the company, ~ 799.85 192.01
Number of Bridges and Trestles in Michigan.
Wooden bridges, number of, 2 13; aggregate length, feet, 2 1,9323 Wooden trestles, number of, 2 121; aggregate length, feet, 2 13,6173
Total,
Draw Bridges in Michigan.
How many on your line? None.
Crossings—Railroad and Highway.
What railroads cross your road at grade in this State, and at what locality? Duluth, South Shore & Atlantic railroad at Trout Lake. Chicago & Northwestern railroad at Hermansville and Eustis. Logging roads at South Manistique, Delta Junction, Mille Coquins, and Naubinway. What railroads cross your road either over or under your grade in this State, and where? Over,—Chicago & Northwestern railroad at Flat Rock.
Number of crossings of highways at grade in this State,  Number of crossings of highways at grade in this State at which there are gates or flagmen,  Number of crossings at which there are electric or automatic signals,  None.
Number of crossings of highways over or under railroad: Over,—2. Under,—0,  Number of highway bridges 18 feet above track, Number of highway bridges less than 18 feet above track, Have safety guards been erected at over-head obstructions?  No.
Are your frogs and guard rails blocked as required by Act 174, Session Laws 1883?  How are they treated? Blocked with plank or cinders and sand.

				Ste	ation <b>s</b>						
Number of sta		on wh	ole li	ne,	-	-	-	_	-		
Same in Michi	igan,	-	-		-	-	-	-	-		
		•		En	ıployé	8.					
Number of per	rsons r	regule	arly en	mplo	yed o	n all	roada	з оре	erate	ed .	
by company, Same in Mich		ding	officia	ıls,	-	-	-	-		-	9 1
•				£_11	<b>.</b>	1:					
Classify your	ешЪю	yes aa	s per i	romo	wing	met:					Num
Baggagemer	a,	-	-	-	_	-	-	-		-	
Brakemen,	-	-	-	-	-	-	-	-		-	
Conductors,	-	-	-	-	-	-	-	-		-	
Engineers,	-	-	-	-	-	-	-	-		•	
Firemen, Laborers,	-			-	-	-	-	-		-	
			-	-	-	-	-	-		-	
Shopmen, Yardmen,	-	-	-	-	-	-	-	-		-	
Others,	-	-	-	-	-	-	-	-		-	
O uncis,	-	•	-	•	-	-	-	-		-	
			REPAI	RS A	ND R	ENEW	ALS.				
•			Fen								
			T. 010	cing	in Mi	ichigar	ı.				
Uom mone mi	log of	for oi		•		ichigar	ı.				O.
How many mi			ng hav	<b>ve y</b> o	u?	4.	-	<u>-</u>	- 1 4	1.	2
Give the numb sides of your	ber of a	miles	ng hay requ	ve yo ired	u? to c	omple	- ete fe				2
Give the number sides of your needed:	ber of a r track	miles k, in l	ng hav requ Michia	ve yo ired gan,	u? to c and t	omple he co	- ete fe untie	s in '	whic	eh	24
Give the number sides of your needed: Chippewa, Sch	ber of a r track hoolers	miles k, in l	ng hav requ Michie	ve yo ired gan,	u? to c and t	omple he co	- ete fe untie	s in '	whic	eh	
Give the numb sides of your needed:	ber of a r track hoolers	miles k, in l	ng hav requ Michie	ve yo ired gan,	u? to c and t	omple he co	- ete fe untie	s in '	whic	eh	
Give the number sides of your needed: Chippews, Schurch Total mile	ber of a r track hoolers es requ	miles k, in l aft, D uired	ng hav requi Michie elta a Roce	ve yo ired gan, nd M	to cand tenon  - d and and	omple he co	- ete fe unties count	s in '	whic	eh	
Give the number sides of your needed: Chippewa, Schur Total mile	ber of a r track hoolers es requ	miles x, in 1 aft, D uired etions	ng hav requ Michia elta a Roo in M	ve your ired gan, and Monday and Monday and Be ichig	to cand tenon  - d and can,	comple che co ninee	- ete fe unties count	s in '	whic	6h 	
Give the number sides of your needed: Chippewa, Schurch Total mile Number of tra Average lengti	ber of r r track hoolers es requ ack sec h of se	miles x, in 1 aft, D uired etions ections	requi Michie Velta a Roo in Mis,—m	ve your ired gan, and Months and Be ichigaliles,	to c and t Ienon - d and gan,	compleshe co	count count -	s in '	whic	eh	
Give the number sides of your needed: Chippewa, Schurch Total mile Number of tra Average length	ber of r r track hoolers es requ ack sec h of se per of r	miles k, in 1 aft, D uired stions ection men i	requi Michia elta a Roc in Mis,—m n eacl	ve your ired gan, and Month of the second se	to cand to cand to cand to cand to cand to cand to can, can, can, can, can, can, can, can,	complete connince	count count - :.	ies,	whic	6h 	9
Give the number sides of your needed: Chippewa, Scharler Total mile Number of tra Average length Average number of new	ber of r r track hoolers es requ ack see h of se per of r w ties.	miles  k, in 1  aft, D  uired  etions  ection  men i  put i	required in Miss,—meacle n who	ve your ired gan, and Month of the second se	to cand to can	omple the co- ninee	count count - :.	ies,	whic	6h 	9 17,0
Give the number sides of your needed: Chippewa, Scharler Total mile Number of tra Average length Average number of new Number of Number of Number of Number of Number of Number of Number of Number of	ber of r r track hoolers es required ack see h of se per of r w ties. w ties	miles x, in l aft, D uired etions ection men i put i put i	required in Miss,—m each n whom trace	ve yo ired gan, nd M - ud Be ichig illes, h secole lines ik in	to cand to cand to cand to cand to cand to cand to can, can, can might be discouraged to cand to cand to can, can might be discouraged to cand	omple he co- ninee	count count - :.	ies,	whic	6h 60 - 7.27	17,0
Give the number sides of your needed: Chippewa, Scharler Total mile Number of tra Average length Average number of new	ber of r r track hoolers es required ack see h of se per of r w ties. w ties	miles x, in 1 aft, D uired etions ection men i put i put i	required in Miss,—m each n whom trace	ve yo ired gan, nd M - ud Be ichig illes, h secole lines ik in	to cand to cand to cand to cand to cand to cand to can, can, can might be discouraged to cand to cand to can, can might be discouraged to cand	omple he co- ninee	count count - :.	ies,	whic	6h 	3 17,0
Give the number sides of your needed: Chippewa, Scharler Total mile Number of tra Average length Average number of new Number of Number of Number of Number of Number of Number of Number of Number of	ber of r r track hoolers es required ack see h of se per of r w ties. w ties	miles x, in 1 aft, D uired etions ection men i put i put i	requi Michia Michia Michia Roca in Mis,—m n each n who n traca ies pe	ve yo ired gan, nd M  ud Be ichig illes, h secole line k in or mi	to ce and to ce	omple he co- ninee	count count :	ies,	whic	6h 60 - 7.27	3 17,0
Give the number sides of your needed: Chippewa, Scharler Total mile Number of tra Average length Average number of new Number of Number of Number of Number of Number of Number of Number of Number of	ber of r r track hoolers es required ack see h of se per of r w ties. w ties	miles x, in 1 aft, D uired etions ection men i put i put i	requi Michia Michia Michia Roca in Mis,—m n each n who n traca ies pe	ve yo ired gan, nd M  ud Be ichig illes, h secole line k in or mi	to ce and to ce	Track	count count :	es in sies,		7.27	17,0 3,0
Give the number sides of your needed: Chippewa, Scharler Total miles Total miles Number of tra Average length Average number of new Number of new Average number of new Average number of length	ber of r r track hoolcra es requ ack sec h of sec per of r w ties, w ties per of r	miles x, in l aft, D uired ctions ection men i put i put i new t	requi Michia Michia Michia Roci in Mis,—m n each n who n trace ies pe	ye yo ired gan, nd M 	to cand to cand to cand to cand to cand to can, can, can, can Mich le of	omple the co- ninee Track gang, ring taigan, road,	count	es in sies,	36	6h 60 7.27 34.50	17,0 3,0 Present lated Va
Give the number sides of your needed: Chippewa, Scharler Total mile Number of tra Average lengt Average numb Number of new Number of new Average numb	ber of r r track hoolcra es requ ack sec h of sec per of r w ties, w ties per of r	miles x, in l aft, D uired ctions ection men i put i put i new t	requi Michia Michia Michia Roci in Mis,—m n each n who n trace ies pe	ye yo ired gan, nd M 	to cand to cand to cand to cand to cand to can, can, can, can Mich le of	omple the co- ninee Track gang, ring taigan, road,	count	es in sies,	36 	6h 60 7.27 34.50 Estim \$50	17,0 3,0 Present lated Va 0,200
Give the number sides of your needed: Chippewa, Scharler Total miles Total miles Number of tra Average length Average number of new Number of new Average number of new Average number of length	ber of r r track hoolcra es requ ack sec h of sec per of r w ties, w ties per of r	miles x, in l aft, D uired ctions ection men i put i put i new t	requi Michia Michia Michia Roci in Mis,—m n each n who n trace ies pe	ye yo ired gan, nd M 	to cand to cand to cand to cand to cand to can, can, can, can Mich le of	omple the co- ninee Track gang, ring taigan, road,	count	es in sies,	36	6h 60 7.27 34.50 Estim \$50	17,0 3,0 Present lated Val 0,200
Give the number sides of your needed: Chippewa, Scharler Total mile Number of tra Average length Average number of new Number of new Average number of new Average number of new Average number of length, excharg	ber of r r track hoolers es required ack see h of se per of r w ties. w ties per of r	miles x, in 1 aft, D uired ctions ection men i put i put i new t	requi Michie Welta a Pool in Mis,—m n each n trace not trace receives per	ve your your your your your you you you you you you you you you you	to cand to cand to cand to cand to can, can, can be considered to can be	gang, ring tigan, road,	count count : : :he ye	es in sies,	36 	6h 60 7.27 34.50 Estim \$50	17,0 3,0 Present lated Val
Give the number sides of your needed: Chippewa, Scharler Total miles Total miles Number of tra Average length Average number of new Average number of new Average number of tra Average number of new Average number of tra Average number of leaguest transport of tra Average number of leaguest transport of	ber of r r track hoolers es required ack see h of se ber of r w ties. w ties ber of r	miles x, in 1 aft, D uired ctions ection men i put i put i new t	requi Michie Welta a Pool in Mis,—m n each n trace not trace receives per	ve your your your your your you you you you you you you you you you	to cand to cand to cand to cand to can, can, can be considered to can be	gang, ring tigan, road,	count count : : :he ye	es in sies,	36 	7.27 34.50 Estim \$50	17,0 3,0 Present lated Va 0,200

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		Number.	Present Estimated Value.
Number of passenger cars—8-wheel, in	cluding		
official cars,	<b>-</b> · · ·	33	<b>\$191,385 00</b>
Number of express and baggage cars,		11	27,225 00
Number of box freight cars,		2,636	1,054,400 00
Number of stock cars,		25	9,450 00
Number of platform cars,		776	271,600 00
Number of ore cars,		1	300 00
Number of conductors' way cars,		35	26,555 00
Other cars,		47	30,320 00
Total,		3,572	<b>\$2,201,200 00</b>
Number of locomotives equipped with	power		
brakes	-	62	
Number of passenger-train cars equippe	ed with		
power brakes,		<b>52</b>	
Number of freight cars equipped with	power		
brakes.		None.	
What patterns of power brakes have you	in use, a	and numb	er of locomo-
tives and cars with each? Westinghou	se automa	tic air bra	ke locomotives
54, passenger cars 22; steam brake loc	omotives 8	3.	
Are your freight cars being equipped wi	th automa	tic couple	ers as required
by Act No. 147, Session Laws of 1885?	Yes.		
What pattern or patterns have you ac	dopted for	ruse? V	Vilson-Blocker
patent.			<b>A</b> 2
How are your passenger cars heated? B	aker impr	oved fire-]	proof heater.
MILEAGE, TRAF	TIC, ETC.		
Train Mileo	age.		
Miles run by passenger trains during the	vear.		507,202
Miles run by freight trains during the ye	ear.		780,418
Miles run by mixed trains,			141,209
,			
Total mileage of trains earning rever			1,428,829
Passenger Tr	raffic.		
	Numbers	Miles	Rate.
	and Quantitie	B	Dols. Cents.
Number of through passengers carried,	31,236		
Number of local passengers carried,	164,646		
Total number of passengers carried,	195,882		
Total passenger mileage, or passengers ca	rried one		
mile,		12,033,2	60
Average distance traveled by each passen	ger.	61.	
Average amount received from each pass			\$1 57.00
Average rate of fare per mile for through		 ers	02.13
Average rate of fare per mile for local per		, <del>-</del>	02.94
Average rate of fare per mile for all pass	engers.		02.54
O France Learner and Mark	-0,	_	<del>-</del>

#### Freight Traffic.

rreight Trajic.		
N	ambers	Rate.
Number of tons of through freight carried,	mantities. M 177,263 670,602	iles. Dollars. Cents.
Total tons of freight carried,	347,865	
Total mileage of through freight, I Total mileage of local freight, I I		reported. reported.
Total freight mileage, or tons carried one mile	e, . 18	31,400,365
Average ton haul for through freight, Average ton haul for local freight, Average ton haul for all freight,		reported. reported. 214
Average amount received for each ton haul, Average rate per ton per mile, received for th Average rate per ton per mile, received for lo Average rate per ton per mile, received for all	cal freight,	\$1 44.000 ht, Not reported. Not reported. 00.674
Freight Forwarded at Michiga	an Stations.	Tons.
Grain, Flour, Provisions (beef, pork, lard, etc.), Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt,		- 31,596 - 150,309 - 2,602 - 850 - 14,608 - 103,356 - 52,346 - 2,318 - 3,220
Petroleum, Railroad iron, iron and steel rails, Pig and bloom iron, Other iron and castings, Ores, Stone, brick and sand,		- 203 - 3,003 - 632 - 2,285 - 83,230 - 4,654
Manufactures,—articles shipped from point of Merchandise and other articles not enumerate	ed above,	, <sub>-</sub> 927 - 34,759
Total forwarded,		490,898
Tonnage of Articles Transported.	-Entire Road	ī.
Grain, Flour, Provisions (beef, pork, lard, etc.), Animals, Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement,	1 	Tons. 13.760 16,664 13.760 58,994 18.752 3,959 .467 9,177 1.082 22,935 2.705 12,408 36.847 53,056 6.258 6,699 .790

							Tons.	Per Cent.
Salt,	_	-		_	_	_	3,505	.414
Petroleum,	_	_	_	_	-	_	294	.035
Railroad iron, iron	and stee	l rails,	_	-	-	-	<b>3,</b> 826	<b>.451</b>
Pig and bloom iron			-	-	-	-	1,589	.187
Other iron and casti	ings,	-	_	-	_	-	3,470	.409
Ores,	•	-	-	-	-	-	83,272	9.821
Stone, brick and sar		-	-	-	-	-	8,276	.976
Manufactures,—arti	cles shi	$\mathbf{pped} \ \mathbf{f}$	rom j	point	of pr	<b>:0-</b>		
_duction,		<b>-</b>	-	-	_	-	1,122	.132
	other a	articles	not	enu	merat	ed		
above,	-	-	-	-	-	-	58,619	6.914
Total tons carri	ied,	-	-		_		847,865	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company. Terms,—For a tonnage equal to 2,720 pounds carried 494 miles daily the compensation per month is \$1,041.67; excess to be paid for at the same proportionate rate; does an ordinary express business; we take its freights at the depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 794.35 miles and belongs to the railway company.

#### Transportation Companies.

#### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report? None.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Armour & Co., Chicago, Illinois,	-	-	-	-	-	<b>\$11 26</b>
Total,	_	-	-	-	-	<b>\$11 26</b>

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

Killed,	-	-	-	-	-	<u>:</u>	<u>.</u> ·	<u>.</u> .	-	,	None.

#### INJURED.

January 11, Wm. Farr, fireman, Curtis. Cleaning lantern. February 14, W. J. Farnham, fireman, Sturgeon River. Caught in fire door.

March 1, C. E. Fay, conductor, Gladstone. Fell under caboose.

March 16, Geo. Whitcomb, brakeman, Gladstone. Coupling cars.

April 6, Michael Murphy, brakeman Manistique. Coupling cars.

May 8, Geo. North, brakeman, Gladstone. Fell from engine.

June 14, H. S. Martin, brakeman, Gladstone. Caught in bumpers.

June 16, Thos. Murphy, brakeman, Gladstone. Caught in draw-bar.

June 16, Jas. Nichols, fireman, Gladstone. Fell from engine.

June 18, J. E. Jacobs, brakemen, Ogontz. Caught in car door.

June 22, A. Anderson, section hand, Menominee River. Bolt fell on

finger.
September 9, Alex. Enslie, laborer, Gladstone. Thumb injured by coal

bucket.
September 11, Jos. Blair, brakeman, Chapin. Coupling cars.
September 12, Pat. McCarthy, section hand, Gladstone. Timber fell upon him.

September 16, S. E. Leonard, brakeman, Eustis. Fell from train.
September 25, Ed. Inman, fireman, Rapid River. Fell off bank.
September 28, W. T. Keiler, laborer, Gladstone. Coal fell upon him.
October 2, Geo. Gibson, fireman, Manistique. Cinder flew in eye.
October 8, E. J. Iliff, section hand, Gladstone. Struck by switch light.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

2		Killed.		Injured.			
Causes of Accident.	Passengers.	Employés.	Others.	Passengers,	Employés.	Others.	
Collisions							
Coupling cars							
Derailments							
Falling from trains					•	• • • • • • • • • • • • • • • • • • • •	
Progs							
discellaneous							
Prespassers on trains							
Prespassers on track			•••••				
Total					19		

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	_	_	
Number of persons injured during the year,	_	-	_	19
Number of casualties purely accidental,	1	-	-	12

1889.] MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE R.	R. CO. 487
Number resulting from lack of caution, carelessness, or mis-	_
conduct,	7
Persons killed or injured while intoxicated,	
Trespassers and tramps killed or injured,	_
Suicides,	

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.		
Baggagemen					
Brakemen. Conductors Engineers		8	i		
Firemen Laborers Shopmen	•	· 5	5 5		
Yardmen Not classified above					
Total		19	19		

STATE OF MINNESOTA, COUNTY OF HENNEPIN, SS.

F. D. Underwood, General Manager, and C. W. Gardner, Auditor, of the Minneapolis, St. Paul & Sault Ste. Marie Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

F. D. UNDERWOOD. C. W. GARDNER.

Subscribed and sworn to before me this 20th day of May, A. D. 1890. W. T. Watkins, Notary Public.

#### ANNUAL REPORT

#### OF THE

#### MILWAUKEE & NORTHERN RAILROAD COMPANY.

For the Year Ending December 31, 1889.

[Filed June 2, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ALFRED M. HOYT, New York.

Vice President, JAMES C. SPENCER, Milwaukee, Wisconsin.

Secretary and Treasurer, CHARLES RAY, Milwaukee, Wisconsin.

Auditor, ROBERT TOOMBS, Milwaukee, Wisconsin.

General Manager, C. F. DUTTON, Milwaukee, Wisconsin.

Superintendent, H. M. BELL, Green Bay, Wisconsin.

Chief Engineer, S. B. FISHER, Green Bay, Wisconsin.

Superintendent of Telegraph, F. D. TUCKER, Green Bay, Wisconsin.

Assistant Treasurer, JOHN C. SPENCER, Milwaukee, Wisconsin.

General Passenger Agent, W. B. SHEARDOWN, Milwaukee, Wisconsin.

General Freight Agent, J. J. COLEMAN, Milwaukee, Wisconsin.

Attorney, A. H. BRIGHT, Milwaukee, Wisconsin.

#### DIRECTORS.

ALFRED M. HOYT, New York.
SAMUEL N. HOYT, New York.
ANGUS SMITH, Milwaukee, Wisconsin.
EPHRIAM MARINER, Milwaukee, Wisconsin.
JAMES C. SPENCER, Milwaukee, Wisconsin.
CHARLES RAY, Milwaukee, Wisconsin.
CHARLES F. PFISTER, Milwaukee, Wisconsin.
Terms expire October, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Jun	e 5, 1	880.					
Number of stockholders at date of last election,	-	-	-	-		-	40
Number of stockholders in Michigan at same date,	-	-	-	-	-	-	None.
Amount of full paid stock held in Michigan at same	date	, -	-	-	-	-	None.
Date of annual meeting of stockholders,-First Tue	eday	in O	ctobe	er.			
Fiscal year of company ends,—June 30.							
General offices of this company are located at Milwa	ukee,	Wis	cons	in.			

#### GENERAL EXHIBIT.

	DEBI	T.	• CREDIT.
Total income,	<b>\$</b> 838,912	01	<b>\$1,231,091 33</b>
Net income,			392,179 32
Interest on funded debt, \$281,730 00 Interest on unfunded debt, 6,227 88 Rentals of buildings, tracks, etc., 22,598 63	<b>4010 77</b> 4	~-	
	<b>\$</b> 310,556	91	
Balance applicable to dividends,			<b>\$</b> 81,622 81
Balance for the year,			\$81,622 81
Balance (profit and loss) last year, Balance forward to next year,	<b>\$</b> 294,70 <b>4</b>	09	213,081 28
·	\$294,704	09	\$294,704 09
ANALYSIS OF CAPITAL	STOCK.		
Amount authorized by charter or articles of a	ssociation,	-	<b>\$</b> 8,000,000 00
Par value of shares, \$100 No. of shares issued,	<b>\$</b> 5,155,000	00	
Total amount paid in, as per books of the con	npany,	-	<b>\$</b> 5,155,000 00
Paid in per mile of road owned by company, —302.50 miles,	<b>\$</b> 17,041	32	

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	Where Payable.	Amount.
First mortgage bonds on road between Schwartzburg and Green Bay, and Hilbert, Menasha, Neenah and Appleton	6%	1910 1918	New York	\$2,155,000 2,996,000
Total funded debt				\$5,551,000

Total,

**\$**10,907,074 74

#### UNFUNDED DEBT.

For What Incurred.	Is the Sar	me to b	e Funde	d or How	Liquid	ated	. Amount.	
For construction			••••••				\$177,96 182,89 6,00	8 57
Total unfunded debt				~			\$806,37	70 <b>6</b> 5
	222	n. 7 m. 7 T		-				,
•	RECA	PITUI	LATION	۱.				
Total funded debt, Total unfunded debt,	 - ·	-	-	- -	-	-	<b>\$5,151,000</b> 306,370	00 65
Total debt liabilities	, -	-	-	-	<u>.</u> .	-	<b>\$</b> 5,457,370	65
Amount of debt liabilities Fotal amount of stock an Stock and debt per mile	d debt.	_	_	_	) mil - -	es, - -	18,040 10,612,370 35,082	65
	ERAL BA			EET.—1	Dr.			-
Construction and equip				- \$1	- L,235	26	<b>\$10,737,</b> 517	61
Construction and equip				- \$1	-	26	\$10,737,517 61,340	
Construction and equipolation and equipo	oment acc			- \$1	- L,235	26	• •	38
Construction and equipolation equipolation equipolation equipolation equipolation equipolation equipolation equipolation equipolation equipolation equipolation equipolation equipolation equipol	oment acc			- \$1	- L,235	26 12	61,340	38 75
Construction and equipolar cash, tems: Cash, Due from agents, Other assets: Materials and supplies, Total,	oment acc	- - - -	- - -	- 60 -	- 1,235 ),105 - -	26 12	61,340	38 75
Construction and equipolar cash, tems: Cash, Due from agents, Other assets: Materials and supplies, Total,	oment acc	- - - -	- - -	- 60 -	- 1,235 0,105 - - - - - - - - 5,000	26 12 -	61,340 108,206 \$10,907,074	38 75 94
Construction and equipolar cash items: Cash, Due from agents, Other assets: Materials and supplies, Total,  Capital stock, Funded debt, Unfunded debt: Interest unpaid, Vouchers and accounts	eral Ba	- - - -	- - -	\$1 60 	- 1,235 0,105 - - - - - - - - 5,000	26 12 - - - 00 00 - 00	61,340	38 75 94
Construction and equipolar cash items: Cash, Due from agents, Other assets: Materials and supplies, Total,  Capital stock, Funded debt, Unfunded debt: Interest unpaid,	eral Ba	- - - -	- - -	\$1,151 5,151	- 1,235 0,105 - - - - - 5,000 1,000	26 12 - - 00 00 00 77	61,340 108,206 \$10,907,074	38 75 94

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches Built by Co	Company.
--	----------

Total expended for construction a	nd e	quipment,		_	<b>\$</b> 10,737,527 61
Average cost per mile of road,	not	including	sidings,		05 405 05
302.50 miles,	-		-	-	35,495 95
Proportion of cost for Michigan,	-		-	-	2,129,757 00

#### CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

#### MAIN LINE. Extensions and new sidings, **\$29,788 24** New bridges, New buildings, 16 25 35,609 40 Real estate, 1,380 00 New fences, 663 10 Machinery and tools, 11,593 16 28,729 88 60,253 09 New locomotives, New cars. **\$168,033 12** BRANCHES. Extensions and new sidings, **\$**658 53 New buildings, 713 82 1,372 35 Total charges to property account as above, \$169,405 47 Net addition to property account, **\$169,405 47**

# ANALYSIS OF EARNINGS.

# PASSENGER EARNINGS.

Roads.	Local Fares.	Through Fares.	Through Passenger Fares.	Express and Baggage.	Mails.	Other Sources.	Total.	Proportion Per J	Per Train Mile.	Per Mile of Road.
Main line and branches	\$234,968 \$8	\$74,088 70	\$254,988 35 \$74,086 70 \$509,087 08	\$21,006 69 \$28,956 15	\$28,956 15	09 076\$	13 000 73	88 821'108 17 860'758 88	\$0 78.50	\$1,114.77
Leased or Proprietary Roads.										
Oconto & Southwestern	10 9/2	1 70	277 712	2			278 34		08.50	22 19
Total passenger department carnings \$235,254 34 \$714,100 40 \$309,364 74 \$21,007 82 \$23,966 15	\$235,264 34	\$74,100 40	\$309,864 74	\$21,007 82	\$28,956 15	09 676\$	\$366,277 81	84 221,724 81 825,277 81 867,722 x8	\$0 78.00	\$1,115 65

## FREIGHT EARNINGS.

Roeds.	Local Traffic.	Through Traffic.	Total Traffic.	Other Bouroes.	Total.	Proportion Per for Mile.	Per Train Mile.	Per Mile of Bosed.
Main line and branches.	\$378,891 88	\$497,064.38	\$870,966 21		\$870,956 21	\$166,150 64	\$1.98.75	42,734 99
Leased or Proprietary Roads.								
Oconto & Bouthwestern	200 20	111 00	82.028		\$70 28		91.00	<b>98 98</b>
Total freight department earnings	\$874,151 12	\$497,175 38	\$871,826 50		\$871,526 50	\$166,150 64	98.19	\$2,736 14

1000,			_
Total transportation earnings,	•	<b>\$1,226,604</b> 33	1
Transportation earnings per mile of road, Transportation earnings per train mile, Miscellaneous receipts from operating account, other than for transportation, as follows:	<b>\$3,851</b>	31	
From other sources,	-	4,427 0	2
Total earnings from operation of road,	-	<b>. \$1,231,031</b> 33	3
Total earnings per mile of road, Total earnings per train mile, Proportion of taxable earnings for Michigan, Total taxable earnings per mile of road in	233,375	31.50 42	
Michigan,	3,863	85	
Total income from all sources,	-	<b>\$1,231,031</b> 33	3
Proportion of income for Michigan,	-	_ 234,728 89	9
ANALYSIS OF EXPENSI	ES.		
Class 1.—Maintenance of Way and	l Buildin	gs.	
Repairs of road way and track,	_	<b>\$114,813</b> 8	8
Renewals of rails,	_	11,749 6	
Renewals of ties,		14,979 80	6
Repairs of bridges, including culverts and cattle	guards,	, 17,247 0	0
Repairs of fences, road crossings, and signs,	-	19,200 4	8
Repairs of buildings,	-	_ 11,719 1'	7
•		<del> </del>	_
Total,	<del>.</del>	<b>\$189,710</b> 08	5
Class 2.—Maintenance of Motive Po-	wer and (	Cars.	
Repairs of locomotives,	_	<b>\$41,608</b> 0'	7
Repairs of passenger cars,	_	33,731 4	
Repairs of freight cars,	_	51,208 5	
Total,	_	<b>\$126,548</b> 0	- 4
Class 3.—Conducting Transpor	rtation.	·	
-	•	204 700 0	^
Fuel for locomotives,	-	- \$84,523 20	
Water supply,	-	5,298 0	9
Oil and waste,	-	3,604 1	
Locomotive service,	-	21,979 9	
Passenger train service,	•	4,157 8	
Passenger train supplies,  Mileage of passenger cars,	-	_ 4,157 60	
Freight train service,	-	_ 35,066 0 <sup>t</sup>	
Freight train supplies,	-	3,628 2	
Mileage of freight cars,	-	7,518 10	
Telegraph expenses (maintenance and operating	g), -	20,033 4	

494	MIC	HIGAN	RAI	ILRO.	AD F	RETU	rns.	•	[Dec	31,
Damage and lo	gg of froi	aht end	l ho	arara ara					867	04
Damages to pro				RR <sub>G</sub> R.	7,	-	-	-	2,845	
Personal injuri		id Cauli	ο,	-	-	-	-		4,120	
		-		-	-	-	-	-	78,347	
Agents and star		100, .	•	-	-	-	-	-		
Station supplies	8, _			-		-	-	-	3,481	00
Total,	-		,	-	-	-	-	-	<b>\$</b> 373,516	74
•		CLASS :	4.— <i>G</i>	eneral	Exp	en <b>ses</b> .	•			
Salaries of the	general	officers	of th	ie coi	npan	ıv.	_	_	\$26,135	29
Salaries of cler	ks in ger	eral of	ices.		P	-,,		_	18,337	
Law expenses,			,		-	-	-	-	1,954	
Insurance,	-			-	•	•	-	-	2,514	
Stationery and	nrinting		•	-	-	-	-	•	11,508	
Outside agencie	brimming	, vorticir		-	•	-	-	-	26,022	
Contingencies	ss and ad	A OT MPIT	ιg,	-	-	-	-	-		
Contingencies,	-			-	-	-	-	-	23,145	
Taxes,	-			-	-	-	-	-	39,458	<b>5</b> Z
Total,	-		•	-	-	-	-	-	<b>\$149,077</b>	18
	TR:	ECAPITU	T.A.T1	OM O	r ry	DENS	TEG			
	10.	CALIL	, DAI.	ion o	r DA	.1 1211				
							Per Cent Expens			
Maintenance of	way and	buildi	nos.	_			22	.63	\$189,710	05
Maintenance of				ara	_	_		.08	126,548	
Conducting train			<u> </u>					.52	373,516	74
General expens	os inclu	dina tos	, ,	•	•	•		.77	149,077	
General expens	os, meru	mig was	100,	-	•	-	11	 	143,011	
Total opera	ating exp	enses a	nd te	axes,	-	-	100	.00	\$838,852	01
Operating expe	nses and	taxes p	er m	ile of	f roa	d, :	<b>\$</b> 2,634	36		
for trains ea Proportion of o	rning re	venue,-	-936	,830	mile	8,	0	89.50	•	
Michigan:	horamia	охрона	100 GJ	uu va	709 1	01				
Main line,						1	60,037	37		
<b></b>		-	-	•	-	_	00,001	•		
Total prop	ortion of	expens	es fo	r Mi	chige	ın,		-	160,037	37
Percentage of e	xpenses	to earn	ings.	<b>68.</b>	14%					
Net earnings p	er mile o	f road.	-	_	-		1,231	53		
Net earnings pe	er train r	nile,	-	-	-			42		
		DESCH	RIPT	ION (	OF F	CAD	<b>).</b>			
D-41 41	1		7 4		. 1		•4			
Date when th	10 road w	as oper	iea i	or us	e bet	<b>W661</b>	ı its pr	esent	termini:	
From Schwartz	berg to (	Champi	on, l	Nov. 2	10, 18	387.				
From Hilbert t					•					
From Menasha										
From Menasha	to Neen	ah. 1880	).							
From Ellis Jun	etion to	Minnel	 gjim	AA an	d M	enom	inee J	ลกทอา	rv. 1884	
Oconto & Son				OO OIL	.u 1111	опоп	······	an ad	. J , 100%	
				Ioro-	he-	1000				
From Oconto J	шсиой (	o Ocon	ю, г	OVEI	mer,	1009	7.			

#### MAIN LINE

MAIN LINE.	
In Michigan, from Menominee River to Champion, In Wisconsin, from Schwartzburg to Menominee River,	Miles. 100ths. Miles. 100ths. 58.00 195.70
Total length completed,	253.70
BRANCHES.	
Appleton, from Hilbert to Neenah and Appleton, Menominee, from Ellis Junction to Menominee, Menominee, from Marinette to Minnekaumee, Menominee, from Frenchtown to Bay Shore,	22.00 24.44 1.80 1.31
Total length of branches owned by company,	49.55
Total length of branches owned by company in Michigan,	2.75
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Aggregate length in Michigan of sidings, spurs,	303.25 60.75
and other tracks not above enumerated,	18.19
Aggregate length of tracks in Michigan belonging to this company, computed as single track,	78.94
Gauge of track, 4 feet, 81 inches.	
Proprietary or Leased Roads Operated by this	Company.
Name, description and length of each: Chicago, Milwaukee & St. Paul:	Total Miles, In Michigan,
North Milwaukee to Schwartzburg, South Milwaukee to Schwartzburg, Oconto & Southwestern: Oconto Junction to Oconto, operated Nov. and Dec.	6.10 9.10
Total,	27.20
Total average miles operated by the company during year	, 320.45 60.75
Number of Bridges and Trestles in Michi	gan.
Wooden bridges, number of, Iron bridges, number of, Wooden Trestles, number of, S2; aggregate leng	th, feet, _ 117
Total, 87;	<del>7,130</del>

#### ${\it Crossings-Rail road\ and\ Highway}.$

What railroads cross your road at grade in this State and at what locality?  West Republic Spur of D., S. S. & A. railroad at Republic.  Spur to Republic mine, D., S. S. & A. railroad at Republic.  Republic branch of D., S. S. & A. railroad two miles north of Republic.  Spur to Champion mine, D., S. S. & A. railroad at Champion.  Branch to Beacon, C. & N. W. railroad at Wabik.  Two crossings of C. & N. W. railroad at Menominee.  Ludington mine spur, C. & N. W. railroad at Iron Mountain.
What railroads cross your road either over or under your grade in this State, and where? Under,—One, C. & N. W. railroad at Iron Mountain.
At what crossings are interlocking and derailing switches in operation? Republic branch of D., S. S. & A. railroad two miles north of Republic. Branch to Beacon, C. & N. W. railroad at Wabik. What pattern or patterns have you adopted? D., S. S. & A., patent of Isham Randolph, Chicago. C. & N. W., Union Switch & Signal Co.
Number of crossings of highways at grade in this State, Number of crossings of highways at grade in this State at which there are gates or flagmen, Number of crossings of highways over or under railroad, Over,—0, under,—1, Have safety guards been erected at over-head obstructions, Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes. How are they treated? Three inch blocks fitted to all the angles.
' Stations.
Number of stations on whole line, 65 Same in Michigan, 10  Employés.
Number persons regularly employed on all roads operated by company, including officials,  Same in Michigan,  Classify your employees as per following list:
Classify your employés as per following list:  Number.

									Number.
Baggagemen,	_	-	_	_	_	_		_	10
Brakemen, .	_	-	_	_	_	_	-	_	58
Conductors,	-	-	_	_	_	_	_	_	30
Engineers, _	_	_	_	_	-	-	-	_	43
Firemen,	_	_	-	_	_	-	_	-	42
Laborers, .	_	_	-	-	-	-	_	-	<b>247</b>
Shopmen, .	_	_	_	_	_	-	_	-	96
Yardmen,	_	_	-	-	_	_	-	-	34
Others,	-	-	-	-	-	-	-		368

#### REPAIRS AND RENEWALS.

#### Fencing in Michigan.

reneing in Brienigan.	
How many miles of fencing have you?	9.50
Give the number of miles required to complete fer sides of your track in Michigan, and the couwhich needed:  Marquette,	nce both nties, in 40.80
Menominee,	10.45
Total miles required,	51.25
Road Bed and Track.	
Number of track sections in Michigan, Average length of sections,—miles, Average number of men in each section gang, Number of new ties put in whole line during the y Average number of new ties per mile of road, in M	ear, 80,700 ich 266
Average number of new ties per mile of road, in M	1cn., _ 200
New rails put in track:	
Steel, tons 3,960.90, miles 42.  Total miles of track laid with new rails, all in Wisco	onsin. 42
Total filles of track laid with new rails, all in wisco	Jusin, - 42
ROLLING STOCK.	
Wolffing S100m.	Present Number. Estimated Value.
Number of locomotives of more than 30 tons	
weight, exclusive of tender,	33 \$198,000 00
Number of locomotives of 20 to 30 tons weight,	
exclusive of tender,	4 20,000 00
Total,	37 \$218,000 00
Number of passenger cars—12-wheel, including	
official cars,	4 13,000 00
Number of passenger cars—8 wheel, including	10,000 00
official cars,	21 63,000 00
Number of express and baggage cars,	11 22,000 00
Number of hox freight cars	708 194,700 00
Number of stock cars.	10 2,500 00
Number of stock cars,  Number of platform cars,	207 31,050 00
Number of ore cars,	150 59,250 00
Number of conductors' way cars,	11 7,700 00
Other cars, gondolas,	150 45,000 00
Total,	1,272 \$656,200 00
Number of locomotives equipped with power brakes,	. 36
Number of passenger-train cars equipped with	
power brakes.	<b>3</b> 6
Number of freight cars equipped with power brakes,	None.

02.74

02.018 01.192

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse automatic air brake, 24 locomotives and 36 cars; Eames' vacuum brake, 12 locomotives.

Are your freight cars being equipped with automatic couplers as required

by Act. No. 147, Session Laws of 1885? Yes.
What pattern or patterns have you adopted for use? Janney.
How are your passenger cars heated? Steam from locomotive.

#### MILEAGE, TRAFFIC, ETC.

#### Train Mileage.

Miles run by passenger trains during the year, Miles run by freight trains during the year, Miles run by mixed trains,	_	-	- - -	479,438 429,140 28,252
Total mileage of trains earning revenue,		_		936,830

#### Passenger Traffic.

Number of through passengers carried, Number of local passengers carried,	Numbers and Quantities. .21,215 284,401	Miles.	Rate. Dollars. Cents.
Total number of passengers carried,	305,616		
Total passenger mileage, or passengers carr Average distance traveled by each passen Average amount received from each passe Average rate of fare per mile for through Average rate of fare per mile for local passengers.	ger,	11,287 - -	\$1 01.00 02.58 02.80

Average rate of fare per mile for all passengers,

Average rate per ton per mile, received for local freight,

Average rate per ton per mile, received for all freight,

Freight Traffi	ic.					
Number of tons of through freight carried Number of tons of local freight carried,	an	fumbers d Quantit 431,27 258,58	3	Miles.		late. rs. Cents.
Total tons of freight carried,		689,85	9			
Total mileage of through freight, Total mileage of local freight,	-	-		562,878 541,06		
Total freight mileage, or tons carried of	one i	mile,	73,	103,94	2	
Average ton haul for through freight, Average ton haul for local freight, Average ton haul for all freight,	- -	-	- -	126.50 71.70 106.00	0	
Average amount received for each ton haul Average rate per ton per mile received for the		gh frei	ght,	-	<b>\$</b> 1	26.000 00.911

1889.]	MILWAUKEE	& NO	RTHI	ern f	RAILI	ROAI	CO.	<b>49</b> 9
	Freight Fo	orward	ed at	Michio	an St	ation	A.	
	_ / J. J. J. J. J. J. J. J. J. J. J. J. J.				w 20		•	Tons.
Grain,		-	-	_	-	-	-	451
Flour,	-, - ,-,	-	-	-	-	-	-	30
Provisions (	beef, pork, lard,	etc.),	-	-	_	-	-	154
Animals,		_	-	_	_	_	-	274
Other agricu	ltural products,	-	_	_	_	-	-	136
Lumber and	forest products,	, -	-	-	_	_	_	37,503
Coal, _		_	_	_	_	-	-	5
Plaster, lime	and cement,	-	_	-	_	_	-	18
Petroleum,		_	_	_	_	_	-	1
Other iron a	nd castings.	_	-	_	_	_	_	118
Ores,		_	_	_	_	_	_	150,481
Stone, brick	and sand.	_	_	_	_	_	_	1,379
	s,—articles ship	ped fr	om p	oint c	of pro	oduc	tion.	153
Merchandise	and other artic	les not	enui	nerate	ed ab	ove.	-	3,600
						,	_	
Total fo	rwarded, -	-	-	-	-	-	-	194,303
	Tonnage of A	rticles '	Trans	ported:	—Ent	ire R	oad.	
							Tons.	Per Cent.
Grain,							48,693	7.06
Flour,		-	-	-	-		16,683	2.42
Provisions (	beef, pork, lard,	etc.)	-	•	-		14,057	2.04
Animals,	occe, porm, man,	, 000. ,,	-	•	-		4,793	.69
	ltural products,	•	-	-	-		11,322	1.64
Lumber and	forest products,		-	-	-		213,102	30.89
Coal.	iorest products,	, -	-	-	-		25,541	3.70
	and cement,	-	-	-	-		22,766	3.30
Salt,			-	-	-		2.091	.30
Petroleum,		-	-	-	-		1,395	.20
	n, iron and steel	maila	-	-	-		3,097	.45
		raiis,	-	-	-		20,003	2.90
Pig and bloc		-	-	-	-		5,243	.76
	nd castings,		-	-	-			25.69
Ores,		-	-	-	-		177,261	
Stone, brick	and sand,		<b>.</b> .		<u>.</u>		29,137	4.23
	es,—articles shi	bbea	irom	poin	UOI		04.054	E 044
production	ı, <sub>-, ,</sub> -	, -	, <del>-</del>	٠ -			34,954	5.07
	and other artic	cies no	ot en	umer	ated		FO 501	0.00
above,		-	-	-	-		59,721	8.66
Total to	ns carried,	-	-	-	-	,	689,859	100.00

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company does a regular express business, paying a rate per day up to a certain weight transported, and on excess over this

fixed weight a rate per 100 pounds. The railroad company keeps cars in repair and running order, and receives and delivers the express company's freight at the railroad company's depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

318 miles of telegraph line, owned jointly by the railroad company and the Western Union Telegraph Company.

#### TRANSPORTATION COMPANIES.

Sleeping, Drawing-Room and Palace Car Companies.

What sleeping, drawing-room, chair, or other palace passenger cars other than the exclusive property of your own or some other railroad company have been in use on your road, in the State of Michigan, during the year, on what terms respectively, and if rented by you or allowed mileage between local points in this State, the amount paid for the use of such cars during the period under report?

Pullman Palace Car Co., Chicago. The railroad company keeps cars in repair; no other compensation paid.

#### Fast Freight Lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals, for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

An occasional fast freight line car is used for through business for which the railroad company pays three-quarters of one cent per mile. No local freight between Michigan points handled in this class of car.

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

November 6, John Peterson, yardmaster, Iron Mountain. Coupling; purely accidental.

#### INJURED.

February 2, Paul Clifford, brakeman, Iron Mountain. Coupling; purely accidental.

February 27, A. J. Reindeau, switchman, Menominee. Coupling; purely accidental.

April 23, Wm. H. King, brakemam, Sagola. Coupling; purely accidental.

June 16, Fred. Richel, brakeman, Sagola. Coupling; purely accidental. August 7, M. Sherlock, brakeman, Iron Mountain. Coupling; purely accidental.

October 19, J. A. Schriber, brakeman, Groveland. Coupling; purely accidental.

October 26, G. A. Summerfield, brakeman, Iron Mountain. Coupling; purely accidental.

November 4, F. Simpson, brakeman, Granite Bluffs. Coupling; purely accidental.

November 21. C. Wicks, switchman, Iron Mountain. Coupling; purely accidental.

December 2, J. A. Schriber, brakeman, Republic. Coupling; purely accidental.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of Accident.		Killed.					
(Masses of Accidents.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	
ollisions							
ollisionsoupling cars		1			10		
erailments							
alling from trains							
etting on and off trains					·		
1gd way crossidgs		<i></i>		.'			
iscellaneous							
verhead obstructions							
respassers on trainsrespassers on tracks							
respassers on stacks				-			
		Ii		-			
Total		1 1		1	10	ŀ	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	-	-	_	-	1
Number of persons injured during the year,	-	_	_	_	-	10
Number of casualties purely accidental,	_	_	_	_	_	11
Number resulting from lack of caution, careles	snes	s, or	misc	ondi	ıct,	
Persons killed or injured while intoxicated,	_	<i>'</i> -	_	_	_	
Trespassers and tramps killed or injured,	_	-	_	-	_	
Suicides,	-	_	-	_	-	

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	1	Killed.	Injured,	Total,	
Baggagemen Brakemen					
Conductors	<b></b>	<b></b>		o 	
Firemen. Laborers.		· · · · · · · · · · · · · · · · · · ·			
Shopmen. Vardmen. Not classified above.		1	. 2	.3	
Total		1	10	11	
7	1			İ	

STATE OF WISCONSIN, COUNTY OF MILWAUKEE, ss.

Charles Ray, Secretary, and R. Toombs, Auditor, of the Milwaukee & Northern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

CHAS. RAY. R. TOOMBS.

Subscribed and sworn to before me this 24th day of May, A. D. 1890. PHILIP D. KENNEDY, Notary Public.

#### ANNUAL REPORT

#### OF THE

### GRAND RAPIDS, LANSING & DETROIT, RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed June 11, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.

Secretary, Treasurer and Transfer Agent, CHARLES MERRIAM, Boston, Mass.

#### DIRECTORS.

H. H. Hunnewell, Boston, Mass.
Charles Merriam, Boston, Mass.
Geo. O. Shattuck, Boston, Mass.
A. H. Hardy, Boston, Mass.
C. L. Young, Boston, Mass.
Nathaniel Thayer, Boston, Mass.
J. B. Mulliken, Detroit, Mich.
Terms expire second Wednesday in May, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—May 17,1887.	
Number of stockholders at date of last election,	8
Number of stockholders in Michigan at same date,	None.
Amount of full paid stock held in Michigan at same date,	None.
Date of annual meeting of stockholders,—Second Wednesday in May.	
Fiscal year of company ends,—December 31.	
General offices of the company are located at Grand Rapids, Mich. and Boston, M	lass.

#### REMARKS.

This Road is leased to and operated by the Detroit, Lansing & Northern R. R. Co.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, - Par value of shares, \$100 00 Average price received per share, 100 00 No. of shares issued, 280 Amount paid in on common, \$28,000 00	<b>\$</b> 450,000 <b>00</b>
Total amount paid in, as per books of the company,	28,000 00
Paid in per mile of road owned by company, —55.54 miles, \$504 14	

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character, and Date of Issue.	When Due,		Amount.	
	,	Rate.	Payable,	
First mortgage bonds, 1887	1927	5%	Boston, Mass	\$1,108,000 00
Total funded debt				\$1,108,000 00

#### UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
For Construction		\$188,671 12
For Real Estate		
FOR Renewals		
For Miscellaneous		
Total unfunded debt		\$188,671 12

#### BECAPITULATION.

Total funded debt, _ Total unfunded debt, _	-	-	-	-	-	-	\$1,108,000 133,383	
Total debt liabilities,	-	-	-	-	-	-	<b>\$</b> 1,241,383	50
Amount of debt liabilities	per n	aile of	road	,—55.	5 <b>4</b> mil	es,	22,351	16
Total amount of stock	and	debt,	-	- '	-	-	<b>\$1,269,383</b>	50
Stock and debt per mile o	f road	l <b>,</b> —55.	54 m	iles,	•		22,855	30

#### INTEREST ON THE FUNDED DEBT.

What is the amount of same due each year? Was it paid for the last year? Yes.

\$55,400 00

#### COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of Road and Branches B	uilt by Compa	ny
Total expended for construction and equipment, Average cost of construction per mile of road, not including	<b>\$1,269,383</b>	50
sidings,—55.54 miles,	22,855	
Proportion of cost of construction for Michigan,	1,269,383	50

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: August, 1888.

#### MAIN LINE.

	Miles. 100ths.	Miles. 100ths.										
Length completed in Michigan, Grand Ledge to Grand Rapids,	53.01	•										
Total length completed,		53.01										
BRANCHES.												
Reed's Lake, from Oakland Park to Reed's Lake, Total length of branches owned by company, Total length of branches owned by company in Michigan,	2.53 2.53	2.53										
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Aggregate length of sidings, spurs, and other)	55.54	55.54										
tracks not above enumerated, Same in Michigan, Aggregate length of tracks belonging to this												
company, computed as single track, Same in Michigan,	55.54	55.54										
Gauge of track, 4 feet 81 inches.												

STATE OF MASSACHUSETTS, COUNTY OF SUFFOLK,

Nathaniel Thayer, President, and Charles Merriam, Secretary, of the Grand Rapids, Lansing & Detroit Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. s. of R. R.] Signed,

NATHANIEL THAYER. CHARLES MERRIAM.

Subscribed and sworn to before me this 2d day of June, A. D. 1890. F. H. Damon, Notary Public.

#### ANNUAL REPORT

#### OF THE

#### CHICAGO, KALAMAZOO & SAGINAW RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed June 11, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, THOS. S. COBB, Kalamazoo, Mich.

Vice President, ANDREW J. BOWNE, Grand Rapids, Mich.

Secretary, Auditor and Treasurer, H. C. POTTER, Kalamazoo, Mich.

General Manager, FRED K. BUSH, Kalamazoo, Mich.

General Superintendent, L. SERGEANT, Kalamazoo, Mich.

General Passenger and Freight Agent, H. C. POTTER, Kalamazoo, Mich.

#### DIRECTORS.

THOS. S. COBB, Kalamazoo, Mich.
W. S. DEWING, Kalamazoo, Mich.
LEROY CAHILL, Kalamazoo, Mich.
FRED K. BUSH, Kalamazoo, Mich.
AMASA B. MATSON, Grand Rapids, Mich.
ANDREW J. BOWNE, Grand Rapids, Mich.
CHAS. S. BUETON, Hastings, Mich.
Terms expire when successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—June	• 7,	1883,	amer	$\mathbf{ded}$	Dec.	10,	1887.	
Number of stockholders at date of last election,	-	-	-	-	-	-		10
Number of stockholders in Michigan at same date,	-	-	-	-	-	-		10
Amount of full paid stock held in Michigan at same d	ate	,—\$71	,500 s	adue	cribed	1, 59	paid	in.
Date of annual meeting of stockholders,—Second To	108	day in	Sept	temb	er.			
Fiscal year of company ends,—December 31, each yea	ır.							
General offices of the company are located at Kalams	zo	o, Mic	h.					

#### REMARKS.

As previously reported, this corporation entered into a contract on October 11, 1886, with the Kalamazoo & Hastings Construction Co., limited, to build its road. Since that time the work has progressed, and at date of the report, the road has been completed between Kalamazoo and Woodbury (45 miles). Pending construction the road is being

operated by the Construction Co., on its own account, and the earnings, operating expenses and data herein contained are as provided by said Construction Co., for the purpose of making this report to the Commissioner of Railroads, as required by law. No traffic statistics have been kept.

#### GENERAL EXHIBIT.

m . 1 ·						DEB	IT.	CREDIT.					
Total income, Total expenses, inc	luding tax	es,	-	-	<b>\$1</b>	7, <b>14</b> 8	<b>9</b> 9	<b>\$</b> 34,330 <b>6</b> 3					
Net income,	- <b>-</b>	-	-	-	-	-		\$17,181 64					
Balance for the yes Balance (profit and Balance forward to	l loss last	year)	- , -	- - -	- - \$2	- 8,966	- 13	\$17,181 64 11,784 49					
		•			\$2	3,966	13	<b>\$28,966 13</b>					
	ANALYS	sis o	F CA	PITAL	STOC	K.							
Amount authorized Par value of shares	,	-	<b>\$</b> 10	0 00	ssocia	tion,	-	\$2,000,000 00					
No. of shares issued Amount paid in on Total amount paid Paid in per mile of by company,—45	shares no in, as per road own	t issu book	ed, s of t	_	\$npany	3,575 , <b>\$</b> 79	-	3,575 00					
	ANALYS	IS OI	F DE	BT AC	COUN	rs.							
	FUNDED DEBT.												
Funded debt,		-	-	-	_	-	-	None.					
		UNFU	NDED	DEBT				•					
Unfunded debt,		-	_	_	-	-	-	- None.					
		RECAI	PITUI	ATION	•								
Total amount of sto	ck and de	bt,	-	-	~	-	-	<b>\$3,575 00</b>					
Stock and debt per	mile of re	oad,—	45 n	ailes,	-	-	-	79 <b>44</b>					
	GENERA	L BA	LAN(	E SH	EET.—	Dr.							
Cash items:		_	-	-	-		-	<b>\$</b> 3,575 00					
Other assets: Suspense accoun	t, .	-	-	-	-	-	-	28,966 13					
Total,		_	_	_	_		_	\$32,541 13					

~	c	v
ゝ	ı	N
u	١.	"

#### GENERAL BALANCE SHEET.--Cr.

GEN	EKA.	L RYT	ANC.	E SHI	SET.	CR.			
Capital stock, Profit and loss or income	acc	- ounts,	-	<u>-</u> -	-	-	-	<b>\$</b> 3,575 <b>2</b> 8,966	00 13
Total,	-	-	-	-				<b>\$</b> 32,541	13
A	NAI	LYSIS	OF E	ARNI	NGS	•			
	PA	88ENGI	ER EA	RNIN	38.				
Main line and branches:							•		•
Total passenger fares,	_	_	_	_	8	16,461	76		
Express and baggage,		_	_	_		571	22		
Mails,	_	_	_	_		1,448			
Other sources,	-	-	_	-		206			
Total passenger depe	rtm	ent ea	rning	,s,	_	_	_	<b>\$18,6</b> 88	89
Proportion for Michiga	a m				g	18,688	QQ		
Per mile of road,	ъц,	-	-	-	. •	523			
,	-	_			~		•		
	F	REIGH'	L EAI	KNING	8.				
Main line and branches: Local traffic,	-	_	-	-	\$	15,434	80		
Total traffic,	-	-	-	-	*	15,434	80	•	
Total freight departs	nent	earni	ngs,	-	_		_	15,434	80
Proportion for Michiga Per mile of road,	an, -	- -	-	-	8	15,434 432			
Total transportation	earı	nings,		-	-	-		33,916	<b>7</b> 5
Transportation earnings Miscellaneous receipts account, other than for follows:	fro	om o	perat	ing	-	<b>\$</b> 950	94		
From telephone,	_	_	_	_	_	<b>\$106</b>	94		
T7 /1 -	-	_	_	_	_	100			
Total,	-	-	-	-	-	-		206	94
Total earnings from	oper	ation	of ro	ad,	-	-	-	\$34,330	63
Total earnings per mile of Proportion of taxable earn Total taxable earnings per Michigan,	ning	s for M	[ichis	gan,		\$956 34,330 956	63		
Total income from a	ll so	urces,		_	_	-	-	<b>\$</b> 34,330	63
Proportion of income for	Mic	higan	,	-	-	-	-	34,330	63

#### ANALYSIS OF EXPENSES.

#### CLASS 2.—Maintenance of Motive Power and Cars.

							•	
Repairs of locome	otives,	_	_	_	_		)	
Repairs of passen	ger cars.		_	-	_		<b>\$2,086</b> \$	53
Repairs of freight	t cars.	_	_	_	_		1.,	
	·,					•	, <u> </u>	
Total,		-	-	-	-		<b>\$2,086</b>	53
•	CLASS	3.—Cond	luctin	g Tran	sporta	tion.		
77 f 1							<b>99.00</b> ¢	49
Fuel for locomoti	•	-	-	-	-		. <b>\$3,006</b>	⊕⊕ ∩∩
Water supply,		-	-	-	-	-	. 100 (	
Oil and waste,			-	-	-		. 182	
Train service,			-	-	-	- •	4,260 9	
			-	-	-		. 126	
Mileage of freigh Telephone expens Loss, damage and	t cars, _	-	-	-	-		. 11 (	
Telephone expens	$\mathbf{ses}$ and $\mathbf{r}$	ent, _	-	-	-		. 295	
Loss, damage and	l persona	ıl injuri	es,	_	-		352	
Agents and statio	n service	),	_	_	_		3,286	34
Station supplies,		· _	_	_	_		. 74 9	
,								
Total,		-	-	-	-		<b>\$11,696</b> (	06
	C	CLASS 4.—	Gener	al Exp	enses.			
<b>C</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, "						<b>20</b> 100 1	^^
Salaries of the ge	neral off	icers of	the co	ompan	ıy, _	-	<b>\$2,420</b>	
Stationery and pr			-	-	-	-	_ 238 (	
Contingencies,	-		-	-	-	-	214	
Taxes,	-		-	. <b>-</b>	-	-	_ 493 9	98
(T)-4-1							<b>49 966</b>	40
Total,	-		-	· -	-	-	<b>\$3,366</b>	40
	REC	APITULA	TION	OF E	XPENS	es.		
						Per Cent of Expenses.	!	
Maintenance of m	otive po	wer and	cars		_	12.10	\$2,086	53
Conducting trans	portation	). <b>-</b>	-	' <u> </u>	_	68.20		
General expenses	includi	no tavas		_		19.70		40
-			-		-			_
Total operati	ng exper	ises and	taxe	8, -	-	100.00	\$17,148	99
Operating expens Proportion of operations Michigan:	es and te erating e	xes per xpenses	mile and	of ros taxes i	id, for	<b>\$4</b> 80 83	l	
Main line,	-		-		1	17,148 99	)	
Total proport	tion of e	xpenses	for N	<b>I</b> ichig	an,		. \$17,148	99
Percentage of exp Net earnings per	penses to mile of	earning	gs,—5	60.20% -		475 9	3	

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Kalamazoo to Hastings, January 1, 1888. From Hastings to Woodbury, September 1, 1889.

#### MAIN LINE.

In Michigan, from Kalamazoo to Woodbury.	Miles. 100ths. 44.20	Miles. 100ths.										
Total length completed,		44.20										
Total length of road belonging to this company,		44.20										
Total length of road belonging to this company in Michigan, 44.20												
Aggregate length in Michigan, of sidings, spurs, and other tracks not above enumerated,												
Aggregate length of tracks in Michigan belonging to this company, computed as single track, Gauge of track, 4 feet 8½ inches.		47.70										
Total miles operated by Construction Co., average,	35.66	35.66										
Number of Bridges and Trestles in Michigan.												
Wooden bridges, number of, . 38; aggregate len	gth, feet,	. 1,430										
Total, 38; •		1,430										
Crossings—Railroad and Highway.	ı											
What railroads cross your road at grade in this State, and at what locality? Cincinnati, Jackson & Mackinaw Railroad at Richland Junction. Michigan Central Railroad at Hastings. At what crossings are interlocking and derailing switches in operation? Richland Junction and Hastings. What pattern or patterns have you adopted? Gravitt Interlocking Switch & Signal Co.; Union Switch & Signal Co. Number of crossings of highways at grade in this State, 64 Number of crossings of highways at grade in this State at which there are gates or flagmen, 1 Are your frogs and guard rails blocked as required by Act 174, Session Laws 1883? Yes. How are they treated? Wood and Ajax patent.												
. Stations.												
Number of stations on whole line, Same in Michigan,		12 12										
Employés.	43											
Number persons regularly employed on all roads op by company, including officials, Same in Michigan,	erated  	52 52										

Classify your employés as per following l
---

									Number.
Brakemen,	_	_	_	_	_	_	_	_	2
Conductors,	_	_	_	_	_	_	_	_	<b>2</b>
Engineers,		_	_			-	_	-	$ar{f 2}$
Firemen,	-	-	_	-	-	-	-	-	$ar{f 2}$
Lahorers		-	-	-	-		-	-	$2\overline{4}$
Yardmen, .	-	-	•	-	-	-	-	-	-2
Others.	-	-	-	-	-	-	-	-	18
Omers,	-	-	-	-	-	-	-	•	10

#### REPAIRS AND RENEWALS.

#### Fencing in Michigan.

How many miles of fencing have you?	87
Give the number of miles required to complete fence both sides	of your
track, in Michigan, and the counties in which needed:	
All fenced	

#### Road Bed and Track.

Number of track sections in Michigan,	-	-	-	8
Average length of sections,—miles,	-	-	-	6
Average number of men in each section gang	ζ, -	-	-	3

#### Bridges and Culverts.

New	hridges	hnilt	during	the	year,-number	
TICM	DITUE	Dulle	daring	ше	year,—mumber	

R

Location,	Kind.	Muterial,	Month Built,	Feet in Length,
Hastings city Hastings city Hastings city Hastings city Woodland township (3)		Wood	January January January May	270 11 16 44
Woodland township (2)		Wood	May	87

#### ROLLING STOCK.

Number of l	ogome	ativas	, of i	mora	than	30 t	one	Number.	Estimated Va	due.
weight, exc					-	-	-	3	<b>\$</b> 13,000	00
Total,	-	-	-	-	-	-	-	3	<b>\$</b> 13,000	00
Number of p	assen	ger o	ars-	8-wh	eel, i	nclud	ing			
official cars		_	_	-	_	-	-	<b>2</b>	4,500	00
Number of pl		n car	s, -	_	_	-	-	10	2,000	
Number of co				ars,	_	_	_	1	300	00
Other cars,	-	-	-	-	-	<u> </u>	-	15	550	00
Total,	-	-	-	-	-	-	-	31	\$20,350	00

Number of locomotives equipped with power brakes, - - - - 2

Number of passenger-train cars equipped with power brakes, - - - - - 2

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse and American.

#### ADDITIONAL QUESTIONS.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

45 miles belonging to road operated by telephone.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

Killed, . . . . . . . None.

#### INJURED.

June 22, John McGuire, roadmaster, near Coates' Grove. Fell from train: lack of caution.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Cause of Accident.		Killed.				
Catalo de Accelone,	Passengers.	Employés.	Others.	Passengers.	Employés,	Others.
ollisions						
oupling care	. <b></b>   <b></b>			,		
erailments						
illing from trains					1	
tting on and off trains						
ghway crossings						
scellaneous						
espassers on trains						
espassers on tracks				1		
-			1	1	1	
				l		
Total					1	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	-	-	
Number of persons injured during the year,	_	-	_	
Number of casualties purely accidental,	_	_	-	
Number resulting from lack of caution, ca	reles	sness,	, or	
misconduct,	-	-	-	]
Persons killed or injured while intoxicated,	-	-	-	
Trespassers and tramps killed or injured,	-	-	•	
Suicides,	-	-	-	

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.	
Baggagemen Brakemen				
Brakemen Conductors Engineers				
Aborers				
shopmen Gardmen Not classified above	1	1		
Total		1		

STATE OF MICHIGAN, COUNTY OF KALAMAZOO, SS.

Fred. Bush, General Manager, and H. C. Potter, Secretary, of the Chicago, Kalamazoo & Saginaw Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

FRED. BUSH. H. C. POTTER.

Subscribed and sworn to before me this 9th day of June, A. D. 1890.

CHARLES L. COBB, Notary Public.

#### ANNUAL REPORT

#### OF THE

#### TOLEDO & SOUTH HAVEN RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed June 11, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, LUCIUS CLARK, South Bend, Ind. Vice President, W. H. McWOOD, San Francisco, Cal. Treasurer, W. G. GEORGE, South Bend, Ind. General Superintendent, JOHN IHLING, Lawton, Mich. Chief Engineer, JOHN S. CROSS, Bangor, Mich. Attorney, E. R. ANNABLE, Paw Paw, Mich.

#### DIRECTORS.

Lucius Clark, South Bend, Indiana. W. G. George, South Bend, Indiana. John Ihling, Lawton, Mich. Henry Ford, Lawton, Mich. F. H. Adams, Lawton, Mich. I. W. Free, Paw Paw, Mich. Edwin Martin, Paw Paw, Mich. C. A. Clark, Marseilles, Ill.

Terms expire January 14, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

when chartered or articles of association filed,—April 21,	1810	) <b>.</b>							
Number of stockholders at date of last election,	-	-	-	-		9			
Number of stockholders in Michigan at same date, -	-	-	-	-		6			
Amount of full paid stock held in Michigan at same date,	,	-	-	-	<b>\$98,000</b> (	00			
Date of annual meeting of stockholders,—Second Tuesday in January.									
Fiscal year of company ends,—December 31.									
General offices of the company are located at Lawton, M	lich.								

#### GENERAL EXHIBIT.

m . 1 .					DEB	IT.	CREDI	
Total income, Total expenses including taxes,	!	-	-	*3	4,243	31	<b>\$24</b> ,182	98
Net income,	-	-	-	-	-	_	9,939	<b>67</b>
Interest on funded debt, Interest on unfunded debt, —	<b>\$12</b> ,	960 281		<b>\$</b> ]	3,241	96		
Balance for the year, Balance (profit and loss) last y	ear,	-	-		3,302 5,366	29		
Balance forward to next year,		-	-	-	-	-	<b>\$</b> 8, <b>66</b> 8	58
				8	8,668	58	\$8,668	58
· ANALYSIS	s of	CAI	PITAL	STO	CK.			
Amount authorized by charter	or aı	ticle	es of a	ssoci	ation,	-	<b>\$</b> 250,000	00
Par value of shares, No. of shares issued, Amount paid in on common,	- - -		\$100 ,500	<b>\$2</b> 4	12,500	00		
Total amount paid in, as per bo	ooks	of t	he con	npan	y,	_	<b>\$242,500</b>	00
Paid in per mile of road owned be —36.60 miles,	b <b>у с</b> с	mpa -	iny, -	8	6,625	68		

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When Due.	Where Payable.	Amount.
First mortgage, January 1, 1887	6%	1917	New York	\$216,000 00
Total funded debt				\$216,000 00

#### UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
For construction		\$9,284 78
For real estate		25,920 00 1,865 30 4,168 58
Total unfunded debt		\$41,238 61

### RECAPITULATION.

		RECA	PITUL	ATION.				
Total funded deb Total unfunded d		-	-	-				000 00 238 61
Total debt li	abilities,	· <del>.</del>	-	-			\$257,	238 61
Amount of debt le Total amount of a Stock and debt pe	tock and	debt.	_	_		mile	499,	028 30 738 61 653 98
	GENE	RAL BA	LANC	E SHI	EET.—De	<b>2.</b>		
Construction ac Equipment acc		-	-	-	<b>\$247,7</b> 5,5	78 3 30 0	0	308 34
Cash items: Cash,	<u>.</u> .	-	-	-	\$1,6	32 1	.7	632 17
Other assets: Materials and s Suspense accou	upplies nt,	(wood),	-	-	\$3 235,7	60 0 69 5	00 52	129 52
Income accoun	t, _	-	-	-				668 58
Total,		-	-	-			\$499,	738 61
	GENE	RAL BA	LAN	CE SH	EETC	R.	•	
Capital stock, Funded debt,	- -		-	- -	\$242,5 216,0		0	600 00
Unfunded debt: Interest unpaid Notes payable, Vouchers and a Other liabilities:	·	- - -	• •	- - -	8,9	600 0 953 3	00 00 31	000 00
Taxes due Stat	e of Mic	higan,	-	-	1,8	365 3		238 61
Total,		_	-	-	- · -		\$499,	738 61
	COST	OF ROA	D AN	D EQU	JIPMEN'	r.		
Total Cost for Const	ruction a	nd Equip	oment (	of Road	l and Bra	nches	Built by Co	mpany.
Total expended for Average cost per —36.60 miles,	or constr or mile	uction a	nd eq d not	uipme inclu	nt, . ding si	ding	s,	308 <b>34</b> 920 99
Proportion of cos	t for Mi	chigan,	-	-		•		308 34

#### CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

#### MAIN LINE.

2,030	23		
		<b>\$</b> 3,637	<b>4</b> 8
	_	\$3,637	48
. \$3,637	<b>4</b> 8	•	
NGS.			
8.			
<b>#10.007</b>	10		
<b>\$12,267</b>	18		
1,204	<b>2</b> 0	-	
	-	<b>\$14,585</b>	<b>43</b>
<b>\$14</b> ,585			
200			
598	91		
40 505			
<b>\$</b> 9,597	55		
<b>\$</b> 9,597	55		
	-	9,597	<b>55</b>
<b>\$</b> 9;59 <b>7</b>			
ogo			
202	<b>4</b> 0		
	-	<b>\$24,182</b>	98
<b>\$660</b>			
-	51.09	21.20	
	-	24,182	98
<b>\$</b> 660			
94 189			
21,102	<b>J</b> O		
200	74		
660	12		
	' <del>-</del>	<b>\$24,182</b>	98
	2,030 746 	\$12,267 18 \$12,267 18 1,064 05 1,254 20 \$14,585 43 51,35 398 51 \$9,597 55 \$9,597 55 \$9,597 55 \$660 74 \$660 74 \$660 74 \$660 74 \$660 74 \$660 74 	2,030 23 746 39  \$3,637  \$3,637 48  NGS.  \$12,267 18  \$12,267 18  1,064 05 1,254 20  \$14,585  \$14,585 43 51,35 398 51  \$9,597 55  \$9,597 55  \$9,597 55  9,597  \$9,597 55  9,597  \$9,597 55  9,597  \$9,597 55  9,597  \$9,597 55  24,182  \$660 74 51.09 24,182 98

# ANALYSIS OF EXPENSES.

				-		
CLASS 1.—M	aintenance	of	Wau	and	Buildings.	

0.2235							•		
Repairs of road way an	d trac	k.		-	_		_	<b>\$2,481</b>	40
Renewals of ties, Repairs of buildings,		—,	-	_	_	-	-	426	
Reneira of buildings	-	-	-	-	-	-	-		$1\overline{2}$
repairs or buildings,	-	-	•	-	-	-	-	91	14
Total,							_	\$2,939	23
10001,	-	-	-	-	-	-	•	Ψ2,000	20
Class 2	–Maint	enan	ce of	Motive	Powe	r and Co	urs.		
Repairs of locomotives,								\$277	82
Repairs of passenger ca	ra	-	-	_	_	_	_	•	06
Repairs of freight cars,		-		-	-	-	-	183	
repairs of freight cars,		-	-	-	-	-	-	100	30
Total,							_	<b>\$54</b> 6	94
10181,	-	-	-	-	-	-	-	<b>407</b> 0	04
Cr.	ass 3.—	Cond	lucting	g Tran	sporto	ition.			
Fuel for locomotives,								<b>\$2,041</b>	46
Oil and made	-	-	-	-	-	-	-		
Oil and waste,	-		-	-	-	-	-	281	
Locomotive service,	-	-	-	-	-	-	-	2,263	
Train service,	-	-		-	_	-	-	<b>1,02</b> 8	
Telegraph expenses, ma	aintena	ance	and o	operat	ing,	_			90
Damage and loss of free	ight ar	nd be	aggag	rê.	_, _	_	•	25	47
Damages to property as	nd catt	tla 🗀		,-,	_	_	_		00
Agents and station serv	riaa	· · ·	-	-	•	-	-	2,903	
Charian annu station serv	100,	-	-	-	-	-	-		05
Station supplies,	-	-	-	-	-	-		10	U
Total,							_	\$8,605	90
2002,	-	•	-	-	•	-	•	40,000	•
	CLASS	4	-Gener	al Exp	enses.				
Salaries of the general	officer	s of	the c	ompan	ıy,	_	_	\$1,200	00
Law expenses,	_	_	_	-	-	_	_	15	
Inguranca			-	-	-	-	-		00
Stationery and printing	, -	-	-	-	-	-	-	263	
Continuous ciar	,,	-	-	-	-	-	-		
Contingencies, -	-	-	-	-	-	-	-	118	
Taxes,	-	-	-	-	-	-	-	499	<b>52</b>
Total,	_	_	-	-	-	-		\$2,151	34
	BOL DE	NTT 4	mros	OB 35	TOTAL	DO.			
R	ECAPIT	LULA	TION	OF EX	PENS.	ES. Per Ce	-+ -4		
						Expen	808.		
Maintenance of way and	d build	ling	B	_		20.0	02	<b>\$2,939</b>	23
Maintenance of motive	Dower	and	Cars				84	546	
Conducting transportati				•		60.4		8,605	
Concret ornered inclin	dina 4	-		-		15.		2,151	24
General expenses, inclu	ome i	S9XB	·, -	-		10.	ΤŢ	2,101	<b>04</b>

Total operating expenses, and taxes,

100.00

**\$14,243 31** 

Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run, for trains earning revenue,—47,340	<b>\$3</b> 80	92	
miles,	030	09	
Proportion of operating expenses and taxes for Michigan, main line,	14,243	31	
Total proportion of expenses for Michigan,	· .	-	\$14,243 31
Percentage of expenses to earnings, 58.07%.			
Net earnings per mile of road.	<b>\$</b> 279		
Net earnings per train mile,		21.09	

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Lawton to South Haven, August, 1887.

## MAIN LINE.

In	Michigan,	from	Lawton	to	South	Haven,	-	Miles. 100ths. 1	Miles. 100ths.
	Total leng	th con	apleted,			-	-		36.60
Tot Agg	al length of al length of in Michig- gregate leng nd other tr	f road an, <sub>-</sub> gth in	belongin Michigan	g to of	this co	mpany , spurs,	-	36.60 1.20	36.60
Agg	gregate leng his compan	gth of y com	tracks in puted as a	Mic sing	chig <b>a</b> n t le track	elonging -	to -		37.80
Gar	ige of track	, <b>3 f</b> ee	et.						
Tot	al miles op	erated	by the c	omp	oany, .	-	-	Total Miles. 36.60	In Michigan. 36.60
		Nur	nber of Br	idge	s and Tr	estles in M	lichig	jan.	
Wo	oden bridg	es, nur	nber of		11; agg	regate le	$\mathbf{ngth}$	, feet,	1,140
	Total,	-		_	11;		-		1,140
			Crossings	-R	ailroad d	ınd Highi	vay.		
At	hicago & V	Vest $M$	[ichigan ]	Rail	road at	Hartford	ł.	and at what hes in oper	_
Nu Nu	at pattern of comber of crownich there	c put i ossing ssings	n by the . s of high of high	Alle way vays	entown i ys at gra s at gra	$\mathbf{Rolling}$ In $\mathbf{t}$	his 8	State,	<b>21</b> e.

1000 7							<b>701</b>		
1889.]	TOLEDO	& SOUTH	HAVE	EN RA	ILRO	AD CO	. 521		
Stations.									
Number of st	ations on w	hole line.					6		
Same in Mic.				-	-		Ğ		
		T.	mployés	,					
N						4	. 3		
Number of p	ersons regu y, including	ariy empi	oyea or	1 811 1	RDBO	operat	ea 27		
Same in Mic	higan, -		-	-	-	-	27		
Classify your	employés	as per foll	owing l	ist:			Number.		
Baggageme	en,		_		_	-	. 1		
Brakemen.			_	-	-	-	. 1		
Conductor	3,			-		-	. 1		
Engineers,				-	-	-	. 2		
Laborere			-	-	-	-	. 13		
Laborers, Shopmen,			-	•	-	-	. 13		
Others,			-	-	-		. 6		
•		REPAIRS	AND DE	NI TONTO A	, Ta				
•									
	.,		in Mic	myan.	•		45		
How many m Give the num sides of you needed:		s required	l to co	omple ne cou	te fer inties	in whi	47 th ch		
Van Buren	County,	<u> </u>	-	-	-	- <b>-</b>	<b>2</b> 5		
Total mi	les require	d, .	_	_	_	_			
	•	-	ed and	Track.					
Number of tr	nak gostion	a in Michi	m				6		
Average leng				_	-		6		
Average num	ber of men	in each se	ction g	ang,	-		$\ddot{2}$		
Number of n	ew ties put	in whole l	ine dur	ing th	ie yea	r, -	3,042		
Number of n	ew ties put	in track in	n Michi	gan,	-		3,042		
Average num	ber of new	ties per m	ule of r	oad,	-		83		
		ROLL	ing st	OCK.					
Number of			20 to	ns		9	. 911 000 00		
weight, exc	lusive of ter	uder, -	-	-		3	\$11,000 00		
Total,			-	-		3	<b>\$11,000 00</b>		
Number of	oassenger o	ars—8-wh	eel, inc	ludin	g				
			•		_	2			
official cars Number of co	mbination r	oassenger o	ears—8	-wheel	l,	2	2,500 00		
Number of b	ox freight c	ars, _	-	-	-	12	3,600 00		
Number of pl			-		-	16 13	3,300 00 590 00		
Other cars,			•	•	-	19	000 <del>00</del>		
Total,			-	-		45	\$21,490 00		
96	•								

Number of locomotives equipped with power brakes,	2
Number of passenger train cars equipped with power brakes,	4
Number of freight cars equipped with power brakes,	ī
What patterns of power brakes have you in use, and number of loco	motives
and cars with each?	
Eames Vacuum.	
Are your freight cars being equipped with automatic couplers as r	equired
by Act No. 147, Session Laws of 1885? No.	_
`TT 10 C/	•

How are your passenger cars heated? Stoves.

# MILEAGE, TRAFFIC, ETC.

2 / 00/// 22 /	leage.		
Miles run by passenger trains during the Miles run by freight trains during the	he year,	- -	28,404 18,936
Total mileage of trains earning rev	enue,	-	47,340
Passenger	Traffic.		
Number of local passengers carried,	Numbers and Quantities. 37,410	Miles.	Rate. Dols. Cents.
Total number of passengers carried,	37,410		
Total passenger mileage, or passengers mile, Average distance traveled by each passe. Average amount received from each particle amount received from each particle amount received from each particle amount.  Average rate of fare per mile for all particle amounts.	enger, ssenger, passengers,	408,906 10.99  	\$0 <b>32.</b> 8 03. 03.
Freight T	raffic.		
•	-		•
Number of tons of local freight carried	Numbers and Quantities. l, 11,673	Miles. Dol	Rate. llars. Cents.
Number of tons of local freight carried  Total tons of freight carried,  Total mileage of local freight,	and Quantities.	Miles. Dol	llars. Cents.
Total tons of freight carried,	and Quantities. 1, 11,673		ilars. Cents.
Total tons of freight carried, Total mileage of local freight,	and Quantities. 1, 11,673	212,36	0 
Total tons of freight carried, Total mileage of local freight,  Total freight mileage, or tons carried or Average ton haul for local freight,	and Quantities.  1, 11,673 11,673  ne mile,  aul, for local freight	212,36 212,36 18.3 18.3	0 
Total tons of freight carried, Total mileage of local freight,  Total freight mileage, or tons carried of Average ton haul for local freight, Average amount received for each ton l Average rate per ton per mile, received	and Quantities.  1, 11,673  11,673  ne mile,  naul, for local freight,	212,36 212,36 18.3 18.3	60 

1889.]	TOLEDO	) & S	SOUTH	HAV	EN R	AILRO	AD C	ю.	<b>523</b>
									Tons.
Animals,			-	-	-	-	-	-	322
Other agricult	ural prod	lucts,		_	-	-	_	-	1,661
Lumber and fo	prest prod	lucts,	, -	-	-	-	-	-	5,604
Coal,		_	_	_	_	_	_	-	259
Plaster, lime a	nd ceme	nt,	_	_	-	_	_	_	84
Salt,		٠ _	_	_	_	_	_	_	171
Petroleum,		_	_	_	_	_	_	_	124
Ores,	_	_	_	_	_	_	_	_	60
Stone, brick an	nd sand.					_	_	,	43
Merchandise a	nd other	artic	les not	enun	erate	d abov	е.	_	1,664
	00.			<b></b>			-,	-	
Total forv	varded,	-	_	-	_	-	-	-	11,673
	Tonnage	of A	rticles I	Transn	orted	_Entire	e Road	i.	
		٠,						Tons.	Per Cent.
Grain.								875	7.48
Flour.	-	-	-	-	_			710	6.32
Provisions (be	ef nork	lard	etc )	-	-			96	.80
Animals,	or, pora,	ıuı u,	000.		-			322	2.73
Other agricult	nrel pro	dnote	-	-	-			1,661	14.20
Lumber and for				-	-			5,604	47.99
Coal.	nest proc	iucis,	,	-	-			259	2.20
	nd	-	-	-	-			20 <i>9</i> 84	.70
Plaster, lime a	па сешет	1 6,	•	-	-			171	1.44
Salt,	-	-	-		-				
Petroleum,		-	-	-	-			124	1.04
Other iron and			-	<b>-</b>	-			60	.49
Stone, brick an			<b>.</b>		-	:		43	.36
Merchandise	and oth	er a	rticles	$\mathbf{not}$	enum	erated		- 004	- 1
above, _	-	-	-	-	-			1,664	14.25
Total tons	carried,		_ `.			- <b>-</b>		11,673	100.00

STATE OF MICHIGAN, COUNTY OF VAN BUREN, ss.

John Ihling, Superindent, of the Toledo & South Haven Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.]

JOHN IHLING.

Subscribed and sworn to before me this 9th day of June, A. D. 1890.

ANNA E. POTTER, Notary Public.

### ANNUAL REPORT

#### OF THE

# TOLEDO, SAGINAW & MACKINAW RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed June 20, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Presideut, AMMI W. WRIGHT, East Saginaw, Mich. Secretary, WILLIAM C. McCLURE, East Saginaw, Mich. Treasurer, W. R. BURT, East Saginaw, Mich.

#### DIRECTORS.

A. W. WRIGHT, Alma, Mich.
P. H. KETCHAM, East Saginaw, Mich.
WM. C. McClure, East Saginaw, Mich.
W. R. Burt, East Saginaw, Mich.
C. W. Wells, East Saginaw, Mich.
F. C. Stone, East Saginaw, Mich.

Terms expire when successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—June	e 29, 1	887.				
Number of stockholders at date of last election, -	-	-	-	-	-	6
Number of stockholders in Michigan at same date,	-	-	-	-	-	6
Amount of full paid stock held in Michigan at same	date,-	-No	stock	c issu	æd.	
Date of annual meeting of stockholders,—April 16, 18	389.					
Fiscal year of company ends,—December 31, each year	ar,					
General offices of the company are located at East S	aginav	v, Mi	ch.			

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association, Par value of shares, \$100 00	-	\$2,500,000	00
Amount paid in on shares not issued, . \$1,071,922	30		
Total amount paid in, as per books of the company, Paid in per mile of road owned by company,—miles, 62,\$17,385	- 84	1,071,922	30

# ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Funded debt,	-	-	-	-	-	-	- No	ne.			
	UNFU	IDED	DEBT.								
For construction and equipm	ent,	-	-	-	-	-	<b>\$</b> 836,866	23			
RECAPITULATION.											
Total unfunded debt,	-	-	-	-	-		<b>\$</b> 836,866	23			
Total debt liabilities,	-	-	-	-	-		\$836,866	23			
Amount of debt liabilities per	mile o	of roa	d,—62	mile	8, _		13,497	84			
Total amount of stock a	nd de	bt,	-	-	-		<b>\$1,908,788</b>	53			
Stock and debt per mile of re	oad,	-	-	-	-		30,883	<b>68</b>			
COST OF	ROAI	D AN	D EQ	UIPM	ENT.						
Total Cost for Construction and 1	Equipn	<b>rent</b> oj	Road	and B	ranch	es Bı	uilt by Compo	ıny.			
Total expended for construct		nī4			ī a	<u>.</u> -	<b>\$1,900,000</b>	00			
Average cost of construction sidings,—62 miles,	-	-		-	aciua -	ing -	31,512				
Proportion of cost of constru	ction	for M	lichiga	ın,	-	-	1,900,000	00			
DESC	RIPT	ION (	OF RO	AD.							

Date when the road was opened for use between its present termini: January 11, 1890.

# MAIN LINE.

Length completed in Michigan,	-	-	62.00	Miles. 100ths.
Total length completed,	-	-		62.00
Total length of road belonging to this compar Total length of road belonging to this compa	ny,		62.00	
in Michigan,	-			62.00
Aggregate length of sidings, spurs and oth tracks not above enumerated,	ier -		14.00	14.00
Same in Michigan, Aggregate length of tracks belonging to the	nis	-		14.00
company, computed as single track, Same in Michigan,	-		76.00	76.00
Gauge of track, 4 feet, 8½ inches.				

STATE OF MICHIGAN, SS. COUNTY OF SAGINAW,

P. H. Ketcham, Vice President, Wm. C. McClure, Secretary, of the Toledo, Saginaw & Mackinaw Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

P. H. KETCHAM. W. C. McCLURE.

Subscribed and sworn to before me this 19th day of June, A. D. 1890.

WARREN M. TRUDE, Notary Public.

#### ANNUAL REPORT

#### OF THE

# MANISTEE & NORTHEASTERN RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed June 25, 1890.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and General Manager, EDWARD BUCKLEY, Manistee, Mich. Vice President, CHAS. F. RUGGLES, Manistee, Mich. Secretary, Auditor and Treasurer, WM. J. LAW, Manistee, Mich. General Superintendent, WM. DOUGLAS, Manistee, Mich. Chief Engineer, J. J. HUBBELL, Manistee, Mich. General Passenger and Freight Agent, H. W. CUNNINGHAM, Manistee, Mich.

#### DIRECTORS.

EDWARD BUCKLEY, Manistee, Mich. Wm. Douglas, Manistee, Mich. Wm. J. Law, Manistee, Mich. Chas. G. Wilson, Manistee, Mich. T. J. Elton, Manistee, Mich.

Terms expire January 7, 1890.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

-	7
-	7
<b>\$30,000</b>	00
	-

# GENERAL EXHIBIT.

	GENE	KAL	EXHI	BIT.			
M-4-1 :					DEBIT		CREDIT.
Total income, Total expenses, including	taxes,	-	-	-	<b>\$44</b> ,103	83	<b>\$</b> 46,620 09
Net income,	-	-	-	-	-	-	<b>2,516 26</b>
Interest on unfunded deb	t, _	-	-	-	<b>\$</b> 31,827	53	
Balance for the year, Balance forward to next y	ear,	-	-	-	<b>\$29,311</b>	<b>27</b>	<b>\$</b> 29,311 27
,					\$29,311	27	\$29,311 27
ANA	LYSIS	of c	APIT	AL S	TOCK.		
Amount authorized by ch Par value of shares, No. of shares issued, Amount paid in on common			cles o 100 00 6,000	)	ociation, \$30,000		<b>\$</b> 600,000 <b>00</b>
Total amount paid in	•	hook	a of ti	he co		_	30,000 00
Paid in per mile of road of —39.90 miles,	_	y con	npany	<b>,</b>	<b>\$</b> 751	89	
22122			DEB'		011101		
Funded debt,	_	-			-	_	None.
	UNF	UNDE	D DE	вт.			
For what Incurred,	Is t	he Same	to be Fu	ınded, o	r How Liquid	lated.	Amount.
For construction For equipment. For real estate For renewals For miscellaneous.	}To be	funded					\$481,791 66 85,291 67
For current balances							
Total unfunded debt							\$567,083 88
	REC	APITU	LATIC	ON.			
Total unfunded debt,	-	-	-	-	-	-	<b>\$</b> 567,083 33
Total debt liabilities,	-	-	-	-	-	-	\$567,083 33
Amount of debt liabilities	per m	ile of	road,	39.	90 miles	,	14,212 61
Total amount of stock	and d	ebt,	_	-	-	-	<b>\$</b> 597,083 <b>33</b>
Stock and debt per mile o	f road,-	<b>—39.</b> 9	90 mil	es,	_	_	14,970 50

1009.j . MANIE	OTEMP OF 1	NORTE	LEAST	LEIRIN	KAILKUA	D CC	. 029
,	GENERA	L BAI	LANC	E SHE	EET.—Dr.		
Construction acco Equipment accou		-	-	-	\$482,480 85,291		
Profit and loss or in	come acc	ounts,		_			\$567,772 06 29,311 27
Total,		-	-	-			<b>\$</b> 597,083 33
	GENERA	L BA	LANC	E SHE	EET.—Cr.		
Capital stock, Unfunded debt:	· -	-	-	-		-	<b>\$</b> 30,000 00
Interest unpaid.	-	-	-	-		-	
Dividends unpaid Notes payable, Vouchers and acc	ounts,	-	-	-		-	567,083 33
Other liabilities,	-	-	-	-		-	<u></u>
Total,	-	-	-	-		-	<b>\$</b> 597,083 33
	COST OF	ROAD	ANI	EQU:	IPMENT.	•	
Total Cost for Construc	ction and .	Equipn	rent of	Road,	and Branch	hes Bu	ilt by Company.
Total expended for a Average cost per m	constructule of re	ion an oad, n	$\begin{array}{c} \mathbf{d} & \mathbf{equ} \\ \mathbf{ot} & \mathbf{in} \end{array}$	ipmer cludir	nt, ng sidings	- I,—	<b>\$</b> 567,772 06
39.90 miles, Proportion of cost fe	_	_	_	_			12,092 24 567,772 06
	ANA	Lysis	OF I	EARNI	NGS.		
	PA	SSENG:	ER EA	RNING	8.		
Main line and branc	hes:						
Local fares, Through fares,	 	-	-	-	\$18,037 37	25 30	
Total passenger	fares,	-	_	-	\$18,074	55	
Express and bagg Mails,	age,	<u>-</u>	-	<u>-</u>	86 164		
Total passenger	departm	ent ea	rning	, 18,			<b>\$</b> 18,325 <b>2</b> 5
Proportion for Mi	chigan,	-	_	-	<b>\$</b> 18,325		
Per train mile, Per mile of road,		-	-	- -	763	74.60 55	)
		REIGH'	r eab	NINGS	•		
Main line and branc Local traffic,	hes: 	_	-	-	\$28,294	84	
Total traffic,		-	-	-	\$28,294	84	
Total freight de	partment	earni	ngs,			_	28,294 84

67

Proportion Per train Per mile		gan, - -	- - -	-	- - -		8,294 1 1,178	50.66		
Total transp	portation ea	rnings	١,	-	-	-	-	-	<b>\$4</b> 6,620	09
Transportat Miscellaneo	tion earning tion earning ous receipts	s per t from	train opera	mile, ating	accou	-	1,942 1	50 07		
	n for transp	ortatio	on, as	follo	ws:				4.4	40
From telegr	raph, -	-	-	-	-	-	-	-	44	43
Total e	arnings from	m oper	ration	of ro	oad,	-	-	-	<b>\$46,664</b>	<b>52</b>
Total earni Proportion	ngs per mil ngs per trai of taxable e	n mile arning	, gs for	Mic	- higan	- • -	1,169 1 -	54 07	46,664	<b>52</b>
Total taxa Michigan	ble earning	gs pei	mil	e∙ o <b>f</b> -	road	$\mathbf{in}$	31,169	54		
Total i	ncome from	all so	urces	,	_	-	-	_	46,664	<b>52</b>
Proportion	of income f	or Mi	chiga	n,	_	-	_	_	46,664	<b>52</b>
		ANA	LYSIS	OF	EXPE	NSES.				
	~									
Repairs of Repairs of	CLASS road way as bridges, inc fences, road buildings,	nd trac	ck, z culv	erts a	and ca	_	_	-		
Repairs of Repairs of	road way as bridges, inc fences, road	nd trac	ck, z culv	erts a	and ca	_	_	-	1,723 3	93 35 00
Repairs of Repairs of Repairs of	road way a bridges, inc fences, road buildings,	nd trading luding l cross	ck, g culv ings a -	erts and si	and ca igns, -	ittle g - - -	uards - - -	- , - - - -	1,723 3 8	93 35 00
Repairs of Repairs of Repairs of Total,	road way a bridges, inc fences, road buildings, - - CLASS 2-	nd trading luding l cross - - - - - -	ck, g culv ings a -	erts and si	and ca igns, -	ittle g - - -	uards - - -	- , - - - -	1,723 3 8 <b>\$9</b> ,687	93 35 00 13
Repairs of Repairs of Repairs of Total, Repairs of	road way a bridges, inc fences, road buildings,	nd tradeluding	ck, g culv ings a - - tenanc	erts and si	and ca igns, -	ittle g - - -	uards - - -	- , - - - -	1,723 3 8 \$9,687	93 35 00 13
Repairs of Repairs of Repairs of Total, Repairs of Repairs of	road way a bridges, inc fences, road buildings, - - CLASS 2-	nd tradiculation of the second	ck, g culv ings a -	erts and si	and ca igns, -	ittle g - - -	uards - - -	- , - - - -	1,723 3 8 <b>\$9</b> ,687	93 35 00 13 11 18
Repairs of Repairs of Repairs of Total, Repairs of Repairs of	road way a bridges, inc fences, road buildings,	nd tradiculation of the second	ck, g culv ings s - - tenanc	erts and si	and ca igns, -	ittle g - - -	uards - - -	- , - - - -	\$9,687	93 35 00 13 11 18 03
Repairs of Repairs of Repairs of Total, Repairs of Repairs of Repairs of	road way as bridges, inc fences, road buildings,  CLASS 2- locomotives passenger of freight care	nd traceluding leross  Main s, - ears,	ck, g culv ings a - - tenance - - -	erts and sind sind sind sind sind sind sind si	and ca igns, - - Motive - - -	Little g	- uards - - - - and (	- , - - - -	\$9,687 \$2,067 1,065	93 35 00 13 11 18 03
Repairs of Repairs of Repairs of Total, Repairs of Repairs of Repairs of Total,	road way a bridges, inc fences, road buildings,  CLASS 2-locomotives passenger c freight cars	nd tradiculation of the second	ck, g culv ings a - - tenance - - -	erts and sind sind sind sind sind sind sind si	and ca igns, - - Motive - - -	Little g	- uards - - - - and (	- , - - - -	\$2,067 \$2,067 \$1,065 \$3,699	93 35 00 13 11 18 03 32
Repairs of Repairs of Repairs of Total, Repairs of Repairs of Repairs of Total,	road way a bridges, inc fences, road buildings,  CLASS 2-locomotives passenger of freight care.	nd traceluding leross  Main s, - ears,	ck, g culv ings a - - tenance - - -	erts and sind sind sind sind sind sind sind si	and ca igns, - - Motive - - -	Little g	- uards - - - - and (	- , - - - -	\$9,687 \$2,067 567 1,065 \$3,699 \$8,945 1,422	93 35 00 13 11 18 03 32 21 69
Repairs of Repairs of Repairs of Total, Repairs of Repairs of Repairs of Total,	road way a bridges, inc fences, road buildings,  CLASS 2-locomotives passenger c freight cars  CL	nd traceluding l cross	ck, y culv ings t  tenand  -  -  -  -  -  -  -  -  -  -  -  -  -	erts and sind sind sind sind sind sind sind si	and ca igns, - - Motive - - -	Little g	- uards - - - - and (	- , - - - -	\$9,687 \$2,067 567 1,065 \$3,699 \$8,945 1,422 5,677	93 35 00 13 11 18 03 32 21 69 61
Repairs of Repairs of Repairs of Total,  Repairs of Repairs of Repairs of Repairs of Repairs of Total,  Fuel for lo Oil and wa Locomotive Passenger	road way a bridges, inc fences, road buildings,  CLASS 2-locomotives passenger of freight cars  CLASS 2-locomotives, ste, e service, train service	nd trading leross  Main s, - ars, s, -	ck, y culv ings t  tenand  -  -  -  -  -  -  -  -  -  -  -  -  -	erts and sind sind sind sind sind sind sind si	and ca igns, - - Motive - - -	Little g	- uards - - - - and (	- , - - - -	\$9,687 \$2,067 567 1,065 \$3,699 \$8,945 1,422 5,677 2,160	93 35 00 13 11 18 03 32 21 69 61 40
Repairs of Repairs of Repairs of Repairs of Repairs of Repairs of Repairs of Repairs of Total,  Fuel for lo Oil and wa Locomotiv Passenger Passenger	road way a bridges, inc fences, road buildings,  CLASS 2-locomotives passenger of freight cars  CLASS 2-locomotives, ste, e service, train service train supplies	nd trading leross  Main s, - ars, s, -	ck, y culv ings t  tenand  -  -  -  -  -  -  -  -  -  -  -  -  -	erts and sind sind sind sind sind sind sind si	and ca igns, - - Motive - - -	Little g	- uards - - - - and (	- , - - - -	\$2,067 \$2,067 567 1,065 \$3,699 \$8,945 1,422 5,677 2,160 540	93 35 00 13 11 18 03 32 21 69 61 40 19
Repairs of Repairs of Repairs of Repairs of Repairs of Repairs of Repairs of Repairs of Total,  Fuel for lo Oil and wa Locomotiv Passenger Passenger	road way a bridges, inc fences, road buildings,  CLASS 2-locomotives passenger of freight cars  CLASS 2-locomotives, ste, e service, train service train supplies	nd trading leross  Main s, - ars, s, -	ck, g culv ings a - - tenand - - - - - - - - - - - - - -	erts and sind sind sind sind sind sind sind si	and ca igns, - - Motive - - -	Little g	- uards - - - - and (	- , - - - -	\$2,067 \$2,067 567 1,065 \$3,699 \$8,945 1,422 5,677 2,160 540 2,370	93 35 00 13 11 18 03 32 21 69 61 40 19 15
Repairs of Repairs of Repairs of Repairs of Repairs of Repairs of Repairs of Repairs of Repairs of Total,  Fuel for lo Oil and wa Locomotive Passenger Passenger Freight tra	road way a bridges, inc fences, road buildings,  CLASS 2-locomotives passenger of freight cars  CLASS 2-locomotives, ste, e service, train service	nd trading leross  - Main s, - ars, s, -	ck, g culv ings a - - tenand - - - - - - - - - - - - - -	erts and sind sind sind sind sind sind sind si	and ca igns, - - Motive - - -	Little g	- uards - - - - and (	- , - - - -	\$9,687 \$2,067 567 1,065 \$3,699 \$8,945 1,422 5,677 2,160 540 2,370 429	93 35 00 13 11 18 03 32 21 69 61 40 19

			•								
1889.]	MAN	ISTEE	& N	ORTH	EAS'	<b>PERN</b>	RAI	LROA	o co.		531
Damages to				ttle,	-		_	_	-	\$100	
Agents and		ı servi	ce,	-	-	-	-	-	-	<b>2,42</b> 8	
Station supp	plies,	-	-	-	-	-	-	-	-	363	49
Total,	-	-	-	-	-	-	_	-	-	<b>\$24,4</b> 83	07
			CLAS	s 4.— <i>G</i>	enera	ıl Expe	en <b>ses</b> .				
Salaries of t	ha mar	orel o	ffico.	sa of th		mnon	.7		`	,	
Salaries of c	lorke	n con	arel	office	10 00.	шЪоп	у,	-	-		
Law expense	TOT PTO	m gen	0101	ошсов,		-	-	-	-		
Insurance,	, co,	-	-	-	-	-	-	-	-		
Stationery a	nā nwi	ntina	-	-	-	-	. <del>-</del>	-	-	<b>\$6,234</b>	31
Outside agei	nu pri	mung,			-	-	-	-	-		
Outside agei	10168 8	ina sa	verti	sing,	-	-	-	-	-		
Contingenci	es,	-	-	-	-	-	-	-	-		
Taxes,	-	-	-	-	-	-	-	-	- )	t	
Total,	-	-	_	-	-	_	-	-	-	\$6,234	31
		RE	CAPI'	<b>FULAT</b> I	ON C	OF EXI	PENS	E8.			
								Per Cent	t of		
Maintenance	of wa	y and	buil	dings,	_		_	Per Cent	t of es. .96	<b>\$</b> 9,687	13
Maintenance Maintenance						-	-	Per Cent Expens 21	106.	\$9,687 3,699	
Maintenance	of m	otive p	owe:			-	-	Per Cent Expens 21 8	.96 .39	3,699	32
	of motors	otive p ortatio	on,	rand o	ars,	-	- - -	Per Cent Expens 21 8 55	.96		32 07
Maintenance Conducting	of metranspenses,	otive p ortation	on, ling	taxes,	ars, - -	- - -		Per Cent Expens 21 8 55	.96 .39 .51 .14	3,699 24,483	32 07 31
Maintenance Conducting General exp Total or Operating en	e of me transp enses, peratin	otive portation included the second s	on, ling enses	taxes,	ars, - - axes,	- - - -		Per Cent Expens 21 8 55 14	.96 .39 .51 .14 	3,699 24,483 6,234	32 07 31
Maintenance Conducting General exp Total op Operating ex (average	e of me transp enses, peratin xpense e of 24	otive portation of the content of th	on, ling enses taxes	taxes, and t	axes,	of ros	_ :	Per Centre Expense 21 8 55 14	.96 .39 .51 .14 	3,699 24,483 6,234	32 07 31
Maintenance Conducting General exp Total op Operating ex (average Operating ex	e of me transp enses, peratin kpense e of 24 kpense	otive portation included as and miles and to see and to	on, ling enses taxes ,)	taxes, and t	ears, axes, nile	of ros	ın,	Per Cent Expens 21 8 55 14	.96 .39 .51 .14 	3,699 24,483 6,234	32 07 31
Maintenance Conducting General exp Total op Operating ex (average Operating ex for trains	e of me transp enses, peratin kpense e of 24 kpense earnin	otive portation of expenses and miles and revenue of the contraction o	taxes	taxes, and to	axes, nile ain n	of ros	ın,	Per Cenn Expense 21 8 55 14 100	.96 .39 .51 .14 	3,699 24,483 6,234 ************************************	32 07 31
Maintenance Conducting General exp Total op Operating ex (average Operating ex	e of me transp enses, peratin kpense e of 24 kpense earnin	otive portation of expenses and miles and revenue of the contraction o	taxes	taxes, and to	axes, nile ain n	of ros	ın,	Per Cenn Expense 21 8 55 14 100		3,699 24,483 6,234 ************************************	32 07 31
Maintenance Conducting General exp Total op Operating ex (average Operating ex for trains Proportion of	e of motors, beratin kpense e of 24 kpense earning of open	otive portation of expenses and miles and revenue of the contraction o	taxes	taxes, and to	axes, nile ain n	of ros	ın,	Per Cenn Expense 21 8 55 14 100		3,699 24,483 6,234 ************************************	32 07 31
Maintenance Conducting General exp Total op Operating ex (average Operating ex for trains	e of motors, beratin kpense e of 24 kpense earning of open	otive portation of expenses and miles and revenue of the contraction o	taxes	taxes, and to	axes, nile ain n	of ros	in,	Per Cenn Expense 21 8 55 14 100		3,699 24,483 6,234 ************************************	32 07 31
Maintenance Conducting General exp  Total op  Operating exp  (average Operating exp for trains Proportion of Michigan: Main line,	e of motranspenses, peratin xpense e of 24 xpense earnin of open	otive portation included ag exposes and smiles sand for revealing	taxes venue	taxes, s and t s per i per tr o,—43, nses a	axes, nile ain n 325 r	of ros	in,	Per Cenne Expense 211 8 55 14 100 \$1,837		3,699 24,483 6,234 \$44,103	32 07 31 83
Maintenance Conducting General exp Total op Operating ex (average Operating ex for trains Proportion of Michigan:	e of motranspenses, peratin xpense e of 24 xpense earnin of open	otive portation included ag exposes and smiles sand for revealing	taxes venue	taxes, s and t s per i per tr o,—43, nses a	axes, nile ain n 325 r	of ros	in,	Per Cenne Expense 211 8 55 14 100 \$1,837		3,699 24,483 6,234 ************************************	32 07 31 83
Maintenance Conducting General exp  Total op  Operating exp  (average Operating exp for trains Proportion of Michigan: Main line,	e of motranspenses, peratin spense e of 24 spense earnin f open  roport  roport  of expense	s and miles s and reveating	taxes cexpe  cooperations  to taxes cooperations  cooperat	taxes, s and t s per i per tr onses as	axes, nile ain n 325 r or M —94	of ros	in,	Per Cenne Expense 211 8 55 14 100 \$1,837	.96 .39 .51 .14 .00 66 01.798	3,699 24,483 6,234 \$44,103	32 07 31 83

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Manistee to Nessen City, November 20, 1888.

### BRANCHES.

From main line to Onekama, January 14, 1889.

# MAIN LINE.

In Michigan, from Manistee to Nessen City,	Miles. 100ths. Miles. 100ths. 32.94
Total length completed,	32.94
BRANCHES.	
Onekama, from main line to Onekama, Bear Creek, from main line to Peter's Camp,	2.71 4.25
Total length of branches owned by company,	6.96
Total length of branches owned by company in Michigan,	6.96
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Aggregate length in Michigan of sidings, spurs,	39.90 39.90
and other tracks not above enumerated, Aggregate length of tracks in Michigan belonging	4.50
to this company, computed as single track,	44.40
Gauge of track, 4 feet, 81 inches.	
Total average miles exercted by the company	Total Miles, In Michigan.
Total average miles operated by the company	24.00 24.00
Number of Bridges and Trestles in Michi	
	gan. th, feet, _ 152
Number of Bridges and Trestles in Michigwooden bridges, number of,3; aggregate leng	gan. th, feet, _ 152
Wooden bridges, number of, 2; aggregate leng Wooden trestles, number of, 2; aggregate leng Total, 5;  Draw Bridges in Michigan.	gan. th, feet, _ 152 th, feet, _ 480 632
Wooden bridges, number of, _ 3; aggregate leng Wooden trestles, number of, _ 2; aggregate leng Total, 5; 5	gan. th, feet, 152 th, feet, 480 632 1 It in 1888; length of

# Crossings—Railroad and Highway.

What railroads Flint & Pere Toledo, Ann At what crossi Flint & Pere What pattern o The Gravit.	Marc Arbo ngs a Marc	quett r&N are in quett	e rail Vorth nterlo e, Ma	road of Mich ocking inisted	at Ma igan z and	aniste railw l der	e. 7ay at	Соре	mis	h.	
Number of cross Number of cross	sings	s of h	ighw	ays at	t grad	de in de in	this this	State, State	at	2	
which there are gates or flagmen, Are your frogs and guard rails blocked as required by act								2			
How are they to	reate	d? 1	<b>l</b> ostly	y woo	d, so	me w	ith st	eel.		Yes.	
				St	ation	3.					
Number of stat Same in Michig	ions (	on w	pole l	line,	- -	-	-	-	-	1	_
					mploy						
Number of pers	ons r	egula	rly e	mploy	red or	a all r	oads	opera	ted		_
by company, Same in Michig	inclu gan,	ıding -	offic:	ials, -	-	-	-	-	- -	150 150	
Classify your en	mplo	yés a	s per	follo	wing	list:					
Baggagemen, Brakemen,		-	-	-	-	-	-	-	-		1 3
Conductors,	-	-	-	-	-	-	-	-	-		3
Conductors, Engineers,	-	-	-	-	-	-	-	-	-		3
Firemen, Laborers, Shopmen,	-	-	-	-	-	-	-	-	-	13	3
Shopmen.	-	-	-	-	-	-	-	-	-		$\bar{3}$
Yardmen,	-	-	-	-	-	-	-	-	-		$\tilde{2}$
			REPA	IRS A	ND R	ENEW	ALS.				
			Fe	ncing	in M	ic <b>hig</b> a	n.				
How many mile	es of	fenc	ing b	ave y	ou?	-	-	-	-	1	5
Give the number sides of you which needed	ır tr	miles ack,	requ in M	uired Iichig	to co	ompl nd t	ete fe he co	nce b unties	oth s in		
Manistee,	-		-	-	-	-	-	-	-	57	
Total miles	s req	uired	,	-	-	-	-	-	-	5	7
			Ro	ad Bed	l and	Trac	k.				
Number of trac	k sec	tions	in M	Iichig	an,	_	_	-	_		5
Average length	of se	ection	18,—I	niles,		_	-	-	-		7
Average number	or of	men	in ea	ich se	ction	gang	5,	-	-		6

# Bridges and Culverts.

New bridges built during	z ti	the	vear.	
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3

Location.	Kind,	Material,	Month Built,	Feet in Length.
Two miles north of Lemon Lake Three miles north of Lemon Lake One-quarter mile south of Copemish	Trestle Trestle Bent, under braces,	Wood Wood	August September September	240 240 40
Total		• • • • • • • • • • • • • • • • • • • •		520

## ROLLING STOCK.

10011111		1001	<b>L</b> .		
				Number.	Present Estimated Value.
Number of locomotives of more	than	30 ta	าทส		
weight, exclusive of tender,	_	_	-	2	<b>\$</b> 11,920 <b>00</b>
Number of locomotives of 20 to 30	tons	weig	nt,	-	4.024.00
exclusive of tender,	-	-	-	1	4,875 00
Total,	-	_	-	3	<b>\$</b> 16,795 00
Number of passenger cars—12 who	el. in	cludi	in <i>o</i>		
official cars	-	_		1	2,400 00
Number of express and baggage car	re	_	_	ī	1,650 00
Number of box freight cars, -	-	_	_	<b>5</b> .	1,225 00
Number of platform cars, -	_	_		100	
Number of conductors' way cars,	-	_	_	100	450 00
Other cars as follows:	-	•	•	1	450 00
Construction, 2; hand cars, 5, -	-	-		7	<b>3</b> 80 <b>00</b>
Total,	-	-	-	115	\$39,855 <b>00</b>
Number of locomotives equippe	d w	rith			
power brakes,	_	_		3	•
Number of passenger-train cars e	auipi	ped			
with power brakes,	_	_		2	
Number of freight cars equipped	with	n por	ver		
brakes.				2	
What patterns of power brakes have	- 2 VO11	in 118	an. an	d number	of locomotives
and cars with each? American					
house air brake, 1 locomotive an	d 4 c	arg.		- 100011100	.,
Are your freight cars being equippe			itoma	tic couple	hariman sa sre
by Act No. 147, Session Laws of	1885	7 Y	ASI.	or coup.	orb an required
What pattern or patterns have ye				· nga? M	Cree and the
Blocker.	ou a	шори		asor H	coroc and the
How are worr pagganger care bacter	ו פג	D Q.			

How are your passenger cars heated? By Spear stoves.

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Miles run by passenger trains during the year, Miles run by freight trains during the year,	-	-	24,545 18,780
Total mileage of trains earning revenue,	-	_	43,325

Passenger Traffic.

2 04	ssenger	170	ijic.				
			Nun	bers		I	late.
			and Qua	antities.	Mile	ss. Dolls	rs. Cents.
Number of through passengers of	arried	L.		34			
Number of local passengers carr	mad.	7	30	$78\overline{2}$			
Mumber of local bassengers carr	ieu,		υυ,	,104			
m . 1 1 4				01.0			
Total number of passengers ca	arried,	,	39,	,816			
m . 1						<b>20.000</b>	
Total passenger mileage, or passer				nile,	6	60,333	
Average distance traveled by ea	ch pas	sen	er.	_		16.5	7
•	_		_				0 45 90
Average amount received from e	sacn p	asse	nger,	-		. ₹	0 45.30
Average rate of fare per mile for	r local	pas	senger	8, .		_	02.73
Average rate of fare per mile for	r all m	RRRA	nøers.	•			02.73
11. crugo 1000 or mile per mile 10.	P.			-		•	0.2
F	reight !	Trai	nc.				
-	. Oly itt .		,				D-4-
			Numb and Quan	tities	Mil	- 10olls	Rate. irs. Cents.
NT 1	• .	3			MIN	36. DUIL	as. Cenus.
Number of tons of local freight	carrie	a,	117,04	<del>l</del> U			
				_			
Total tons of freight carried	₹.		117,04	40			
Total tomb of Height outlier	~,		,	•0			
m. 4.1					075	040	
Total mileage of local freight,	-	-	-	-	977	,846	
•				_			
Total freight mileage, or to	na car	ried	one mi	ile	977	,846	
Total Trought minoago, or to	no cur.		. 0110 111	,	•••	,010	
Amongo ton hand for local fusion	.L.4					0.95	
Average ton haul for local freig		-	-	-		8.35	
Average ton haul for all freight		_	_	_		8.35	
Average amount received for ea	ah tan	hor	-1				0 24.15
Average amount received for ea	оп іоп	ща	···,	:		- 4	
Average rate per ton per mile, r	eceive	d fo	or local	freig	ht,	-	02.88
Average rate per ton per mile, r Average rate per ton per mile, r	eceive	d fo d fo	or local or all fro	freigl eight.	ht,	-	02.88 02.88
Average rate per ton per mile, r Average rate per ton per mile, r	eceive	d fo	or local or all fro	freight,	ht,	- -	
Average rate per ton per mile, r Average rate per ton per mile, r Freight Forwa	eceive	d fo	r all fr	eight,		-	
Average rate per ton per mile, r	eceive	d fo	r all fr	eight,		-	
Average rate per ton per mile, r Freight Forwa	eceive	d fo	r all fr	eight,		-	02.88 Tons.
Average rate per ton per mile, r  Freight Forwa	eceive	d fo	r all fr	eight,		- -	02.88 Tons. 560
Average rate per ton per mile, r  Freight Forwa  (train,	eceive irded a - -	d fo	r all fr	eight,		- - -	02.88 Tons. 560 29
Average rate per ton per mile, r  Freight Forwa  (train,	eceive irded a - -	d fo	r all fr	eight,		- -	02.88 Tons. 560
Average rate per ton per mile, r  Freight Forwa  (train, Flour, Provisions (beef, pork, lard, etc.)	eceive irded a - -	d fo	r all fr	eight,		- - - - -	02.88  Tons. 560 29 16
Average rate per ton per mile, r  Freight Forwa  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products,	eceive irded a - -	d fo	r all fr	eight,			02.88  Tons. 560 29 16 10
Average rate per ton per mile, r  Freight Forum  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products,	eceive irded a - -	d fo	r all fr	eight,		- - - - - -	02.88  Tons. 560 29 16 10 116,329
Average rate per ton per mile, r  Freight Forum  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal,	eceive irded a - -	d fo	r all fr	eight,		- - - - - - -	02.88  Tons. 560 29 16 10 116,329 2
Average rate per ton per mile, r  Freight Forum  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal,	eceive irded a - -	d fo	r all fr	eight,		-	02.88  Tons. 560 29 16 10 116,329 2
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement,	eceive irded a - -	d fo	r all fr	eight,		- - - - - - -	02.88  Tons. 560 29 16 10 116,329 2 3
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt,	eceive irded a - -	d fo	r all fr	eight,		- - - - - - - - - - - - -	02.88  Tons. 560 29 16 10 116,329 2 3 10
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum,	eceive irded a - -	d fo	r all fr	eight,		-	02.88  Tons. 560 29 16 10 116,329 2 3 10 17
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum,	eceive irded a - -	d fo	r all fr	eight,			02.88  Tons. 560 29 16 10 116,329 2 3 10
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings,	eceive arded a	d fo t Mi	er all free chigan i	eight, Station		-	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum,	eceive arded a	d fo t Mi	er all free chigan i	eight, Station			02.88  Tons. 560 29 16 10 116,329 2 3 10 17
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles	eceive arded a	d fo t Mi	er all free chigan i	eight, Station		- - - - - - - - - - - - - - - - - - -	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings,	eceive arded a	d fo t Mi	er all free chigan i	eight, Station		-	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles	eceive arded a	d fo t Mi	er all free chigan i	eight, Station			02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles  Total tons carried,	eceived arded a - - - - - - - - - - - - - - - - - - -	d fo	er all free chigan is	eight, Station		-	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles	eceived arded a - - - - - - - - - - - - - - - - - - -	d fo	er all free chigan is	eight, Station		- - - - - - - - - - - - - - - - - - -	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles  Total tons carried,	eceived arded a - - - - - - - - - - - - - - - - - - -	d fo	er all free chigan is	eight, Station		- - - - - - - - - - - - - - - - - - -	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles  Total tons carried,  Tonnage of Artice	eceived arded a - - - - - - - - - - - - - - - - - - -	d fo	er all free chigan is	eight, Station		Tons.	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50 117,040  Per Cent.
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles  Total tons carried,  Tonnage of Artic Grain,	eceived arded a - - - - - - - - - - - - - - - - - - -	d fo	er all free chigan is	eight, Station		Tons. 560	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50 117,040  Per Cent478
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles  Total tons carried,  Tonnage of Artic  Grain, Flour,	eceived a a	d fo	er all free chigan is	eight, Station		Tons. 560 29	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50 117,040  Per Cent478 .024
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles  Total tons carried,  Tonnage of Artic  Grain, Flour,	eceived a a	d fo	er all free chigan is	eight, Station		Tons. 560	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50 117,040  Per Cent478
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles  Total tons carried,  Tonnage of Artic  Grain, Flour, Provisions (beef, pork, lard, etc.)	eceived a a	d fo	er all free chigan is	eight, Station		Tons. 560 29 16	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50 117,040  Per Cent478 .024 .013
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles  Total tons carried,  Tonnage of Artic  Grain, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products,	eceived a a	d fo	er all free chigan is	eight, Station	Road.	Tons. 560 29 16 10	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50 117,040  Per Cent478 .024 .013 .008
Average rate per ton per mile, r  Freight Forus  (train, Flour, Provisions (beef, pork, lard, etc.) Other agricultural products, Lumber and forest products, Coal, Plaster, lime and cement, Salt, Petroleum, Other iron and castings, Merchandise and other articles  Total tons carried,  Tonnage of Artic  Grain, Flour, Provisions (beef, pork, lard, etc.)	eceived a a	d fo	er all free chigan is	eight, Station	Road.	Tons. 560 29 16	02.88  Tons. 560 29 16 10 116,329 2 3 10 17 14 50 117,040  Per Cent478 .024 .013

									Tons	. Per Cent.
Coal,	_	_	_	_	_	_	_	-	2	.001
Plaster, lime	and d	cement		_	_	_	_	_	3	.002
Salt,	_	_		_	_	_	_	_	10	.008
Petroleum,	_	_	_	_	_	_	_	_	17	.014
Other iron an	d cas	stings.		_		_	_		14	.012
Merchandise	and o	other a	rticl	es not	enur	nerate	d abo	ove,	50	.040
								•		
Total to	as ca	rried,	-	-	-	-	-	-	117,040	100.000
					Telegr	aph.				

Number of miles of telegraph on your road, and to whom does it belong? . 32.94 miles, Manistee to Nessen City, (main line).

2.71 miles, main line to Onekama, owned by Manistee & Northeastern R. R. Co.

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889. KILLED.

April 6, Tennis Charbornaw, laborer, Onekema Junction. Trespasser; carelessness. Company not responsible.

April 6, Michael Donnoney, laborer, Onekema Junction. carelessness. Company not responsible. Trespasser;

#### INJURED.

July 4, Chas. Ackley, laborer, Manistee. Trespasser; carelessness. Company not responsible.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.		Injured.				
Causes of Accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others		
llisionsupling cars								
upling cars								
railmentslling from trains								
ogstting on and off trains								
tting on and off trains								
scellaneous erhead obstructions		11		l				
espassers on trains								
espassers on track			2					
Total			2					
SUMMAR	RY OF A	CCIDENT	'S IN M	TCHTGAT	J.			

Number of persons killed during the year,	<b>'2</b>
Number of persons injured during the year,	1
Number of casualties purely accidental,	
Number resulting from lack of caution, carelessness, or mis-	
conduct	

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen			
Brakemen. Conductors Engineers			
Ciremen.	-	<b>,</b>	
Shopmen (fardmen Not classified above	_	1	
	-		
Total		<b></b>	

STATE OF MICHIGAN, COUNTY OF MANISTEE, SS.

Edward Buckley, President and General Manager, and Wm. J. Law, Secretary and Treasurer, of the Manistee & Northeastern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

EDWARD BUCKLEY.

WM. J. LAW.

Subscribed and sworn to before me this 3d day of June, A. D. 1890.

JOHN W. SIBBEN, Notary Public.

#### ANNUAL REPORT

OF THE

# ONTONAGON & BRULE RIVER RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed June 27, 1890.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, Vacancy.

Vice President, ANGUS SMITH, Milwaukee, Wis.

Secretary, E. MARINER, Milwaukee, Wis.

Auditor, JOHN C. SPENCER, Milwaukee, Wis.

Attorney, E. MARINER, Milwaukee, Wis.

## DIRECTORS.

THOS. NESTER, Detroit, Mich.
ANGUS SMITH, Milwaukee, Wis.
E. MARINER, Milwaukee, Wis.
JAMES C. SPENCER, Milwaukee, Wis.
CHARLES F. PHISTER, Milwaukee, Wis.
CHARLES RAY, Milwaukee, Wis.

Terms expire July, 1890.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—September 10, 1880.							
Number of stockholders at date of last election,	9						
Number of stockholders in Michigan at same date,	3						
Amount of full paid stock held in Michigan at same date,	None.						
Date of annual meeting of stockholders.—Second Thursday of July.							
Fiscal year of company ends,—December 31.							
General offices of the company are located at Milwaukee. Wis.							

# GENERAL EXHIBIT.

GE	NER	AL E	XHIBI	Т.		
Total income,				DEB	IT.	Сведіт. <b>\$</b> 5,730 43
·	<del>-</del>	-	-		-	
Total expenses including taxe	s,	-	<del>-</del>	<b>\$</b> 11,092	<b>44</b>	
Net deficit,	-	-	-	<b>\$</b> 5,362	01	
Balance for the year, Balance (profit and loss) last	year,	-	-	\$5,362 14,999		
Balance forward to next year,		-	-		-	<b>\$</b> 20,361 78
				\$20,361	78	<b>\$20,361</b> 78
ANALYS	IS OF	CA	PITAL	STOCK.		
Amount authorized by charte	r or a	rticl	es of a	ssociation,	-	<b>\$1,000,000 00</b>
Par value of shares,	-		<b>\$100</b>			-
Amount paid in on shares not	t issue	ed,		<b>\$</b> 491,420	00	
Total amount paid in, as per lead in per mile of road or pany,—miles, 20,	books wned	of t	he com	pany, \$24,571	- 00	<b>\$</b> 491,420 00
	-	-	-			
GENERAI	RAL	JANC	E SHE			
Construction account, Equipment account,	-	-	-	\$506,500 17,062		<b>AKOO K</b> AO AA
Other assets:		_	•	······		<b>\$</b> 523,562 66
Debit balances from comp	anies	and				1 500 00
individuals, Income account,	-	-	-		-	1,580 00 20,361 78
Total,	_	_	_		_	<b>\$</b> 545,504 44
						,
GENERAI	L BAI	LAN	CE SHI	EET.—-Cr.		
Capital stock, amount subsc Unfunded debt:	cribed	l,	-		-	<b>\$</b> 491,500 <b>00</b>
Vouchers and accounts,	-	-	•		-	54,004 44
Total,	-	-	-		-	\$545,504 44
COST OF	ROAD	AN	D EQU	IPMENT.		
Total Cost for Construction and E	Equipn	nent c	of Road	and Branch	es B	uilt by Company.
Total expended for constructi					-	<b>\$</b> 523,562 66
Average cost per mile of —20 miles,	road	пот	merue	mik sign	Rs,	26,178 13
Proportion of cost for Michig	an,	-	-		-	523,562 66

The company has contracted for the construction of 26 miles of new and the thorough repair of the old road, including all station houses, shops, water tanks and turn tables, necessary to fully complete the whole line at the cost of \$884,000, payable one-half in bonds and one-half in full paid capital stock, which work is nearly completed, but no stock or bonds have been issued.

## CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

# MAIN LINE.

Construction,	-	-	-	-	-	-	-	<b>\$</b> 10,503	74
Total charges to pro	pert	у ассо	ount	as abo	ve,	-	-	\$10,503	74
Net addition to property	acc	ount,	-	-	\$:	10,503	<b>74</b>		
	ANA	Lysis	OF	EARN	INGS	<b>3.</b>			
	PA	ASENG	ER E	ARNIN	GS.				
Main line and branches:	:								
Total passenger fares, Express and baggage, Mails,	-	- -	-	-	;		67 50 40		
Total passenger dep	artn	ent e	arnir	128.				<b>\$</b> 1,752	57
Proportion for Michigan Per mile of road,		<u>.</u>	<u>-</u>	- -	;	\$1,752 38		- ,	
	I	REIGE	IT EA	RNING	8.				
Main line and branches	:								
Total traffic,	-	-	-	-	;	<b>\$</b> 3,977	86		
Total freight depart	tmen	t earn	ings,	, -	-	_	_	3,977	86
Proportion for Michiga Per mile of road,	n, -	-	-	- -		<b>\$</b> 3,977 198			
Total transportation	ı ear	nings,	,	-	_	_	_	\$5,730	<b>43</b>
Transportation earnings	per	mile e	of ro	ad,	-	<b>\$</b> 124	30		
Total earnings from	ope	ration	of	road,	_	-	_	5,730	<b>4</b> 3
Total earnings per mile Proportion of taxable ea Total taxable earnings p Michigan,	rnin	gs for	Mich of ros	igan, ad in	-	\$124 - \$124	-	5,730	43
Total income from	all so	ources	_	_				<b>\$5,730</b>	43
Proportion of income for			•	-	<u>-</u>	-	-	5,730	

# ANALYSIS OF EXPENSES.

## CLASS 1.—Maintenance of Way and Buildings.

CLASS 1.	— дан	ntenar	nce oj	way c	ina Bi	ınarngı	5.		
Repairs of road way and	l trac	k.	_	_	_	_	_	<b>\$</b> 1,997	09
Renewals of ties.	_	_	_	_	_	_	_	701	
Repairs of bridges, inclu	ading	culve	erts a	nd cat	ttle g	uards.	_	610	
Repairs of fences, road of	rossii	128. a	nd si	ons.	_	,	_	20	24
TD - ' / 1:1.1:	_	-	-		_	_	_	26	78
Repairs of telegraph,	_	_	_	_	_	_	_		82
G 1 ,					_	_	_		
Total,	_	_	_	_	_	_	_	<b>\$</b> 3,363	60
•						_	_	<b>,</b>	
Class 2.—	Maint	enanc	e of M	lotive i	Power	and Co	1 <b>r</b> 8.		
D								<b>61</b> 700	01
Repairs of locomotives,	-	-	-	-	-	-	-	<b>\$1,789</b>	
Repairs of passenger car		-	-	-	-	-	-	736	
Repairs of freight cars,	-	-	-	-	-	-	-	366	81
							-		
Total,	-	-	-	-	-	-	-	<b>\$2,</b> 893	27
Cla	ss 3.—	Condi	ucting	Trans	porta	tion.			
TO -3 6 1 4'								<b>41 100</b>	50
Fuel for locomotives,	-	-	-	-	-	-	-	<b>\$1,103</b>	
Water supply, Locomotive service,	-	-	-	-	-	-	-	141	
Locomotive service, Passenger train service,	-	-	-	-	-	-	-	1,105	
Passenger train service,	-	-	-	-	-	-	-	204	
Passenger train supplies	3,		-	-	-	-	-	60	
Freight train service,		-	-	-	-	-	-	408	
Freight train supplies,	-	-	-	-	-	~	-	98	
Mileage of freight cars,		-	٠.		-	-	-	473	
Telegraph expenses, ma	inten	ance a	and o	perati	ng,	-	-	193	
Agents and station servi	ice,	-	-	-	-	-	-	667	
Station supplies,	-	-	-	-	-	-	-	69	<b>24</b>
							-	21 727	
Total,	-	-	-	-	•	-	-	<b>\$</b> 4,525	04
	Ctass	a 4.—(	Jenero	ıl Expe	enaes.				
04-4:				<b>.</b>				9140	45
Stationery and printing Outside agencies and ad	,  4-	<u></u>	-	-	-	-	-	<b>\$14</b> 0	
Outside agencies and ad	vertis	ing,	-	-	-	-	-		10
Contingencies,	-	-		-	-	-	-		50
Taxes,	-	-	-	-	-	-	-	149	45
Total							-	<b>e</b> 210	52
Total,	-	-	-	-	-	-	-	<b>\$</b> 310	ออ
	70 t 77								
Ki	ECAPIT	LOTTVA	TON C	OF EX	PENSE		4 4		
						Per Ce Exper	nt of 1886.		
Maintenance of way and	l buile	dings	, -	_		30.	33	<b>\$3,363</b>	60
Maintenance of motive				-		<b>26</b> .	09	2,893	
Conducting transportation	on,	-	_	_		<b>4</b> 0.	79	4,525	04
General expenses, include	ding t	taxes,	, -	_			79	310	53
· •	_	•							
Total operating expen	18 <b>05</b> , 8	nd ta	X08,	-		100.	00	<b>\$</b> 11,092	44

Operating expenses and taxes per mile of road,	<b>\$240 62</b>	
Proportion of operating expenses and taxes for Michigan, main line,  Total proportion of expenses for Michigan,	11,092 44	<b>\$</b> 11,092 <b>44</b>
Percentage of expenses to earnings, 193.5%. Net deficit per mile of road,	<b>\$</b> 116 32	

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Ontonagon to end of first 20 miles, August 14, 1882. From end of first 20 miles to Sidnaw, October, 1889.

## MAIN LINE.

In Michigan, from Ontonagon to Sidnaw,	Miles. 100ths. Miles. 100ths. _ 46.10
Total length completed,	46.10
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Aggregate length in Michigan of sidings, spurs,	46.10
and other tracks not above enumerated,  Aggregate length of tracks in Michigan belonging this company computed as single track,	2 1.50 g to 47.60
Gauge of track, 4 feet, 81 inches.	
Total miles operated by the company,	Total Miles. In Michigan. 46.10 46.10
Number of Bridges and Trestles in 1	Iichigan.
Wooden trestles, number of 25; aggregate le	ength, feet, 5,058
Total,	5,058
Crossings—Railroad and Hight Number of crossings of highways at grade in the Number of crossings of highways at grade in the which there are gates or flagmen,	his State, 8
Stations.	
Number of stations on whole line, Same in Michigan,	<b>6</b> 6
Employés.	•
Number of persons regularly employed on all ros by company, including officials, Same in Michigan,	ds operated 35 35

Classify your e	mplo	уе́в ав	per:	follow	ring li	ist:				Number.		
Baggagemen		_	_	_	-	-	_	-	-	1		
Brakemen,		-	-	-	-	-	_	-	-	1		
Conductors,	_	_	_	_	-	-	-	-	-	1		
Engineers,	_	-	-	-	<u>-</u> ·	-	-	-		1		
Firemen,	-	-	-	-	-	_	-	-	-	1		
Laborers,	-	-	-	-	-	-	-	-	-	23		
Others,	-	-	-	-	-	-	-	-	-	7		
		]	BEPAI	RS AN	ID RE	NEWA:	LS.					
Fencing in Michigan.												
How many mil Give the numb sides of your needed:	erof	miles	requ	ired	to co	omplet ne cou	te fer	in wl	ooth hich	10		
Houghton and	Onto	ກຂອດເ	١.			_	_	_	_	82		
TIOUSINGII GILG	0110	Bo-	<del>-,</del>	-	-	-	-	-	-			
Total mile	s req	uired	,	-	-	-	-	-	-	82		
	Road Bed and Track.											
Number of tra Average length Average numb	h of s	ection	s,—n	iles,	_	- gang,	-	-	-	6 7.66 4		
			R	OLLIN	ig st	OCK.						
Number of loweight, exclusion						ns -			1			
Total,	_	-	_	_	_	_			1			
Number of pe	assen		ırs—8	3-whee	el, ind	cludin	g					
official cars, Number of box		5.	-	-	-	-	-		1			
Number of bo	X ITO1	gnt ce	urs,	-		-	-		.2			
Number of pla				- •	-	-	-		15			
Other cars,	-	-	-	-	•	-	-		1			
Total,	-	-	-	-	-	-			19			

## ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company handle express business on this line, paying \$25 per month for the privilege. R. R. Co. takes the freight to depots.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

46 miles of line owned jointly by the railroad and Western Union
Telegraph Company.

STATE OF WISCONSIN, COUNTY OF MILWAUKEE, Ss.

E. Mariner, Secretary, of the Ontonagon & Brule River Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, E. MARINER.
Subscribed and sworn to before me this 24th day of June, A. D. 1890.
PHILIP D. KENNEDY, Notary Public.

#### ANNUAL REPORT

OF THE

# WISCONSIN CENTRAL COMPANY,

For the Year Ending December 31, 1889.

[Filed June 27, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and Treasurer, CHAS. L. COLLEY, Milwaukee, Wis. Vice President, EDWIN H. ABBOT, Milwaukee, Wis. Secretary, HOWARD MORRIS, Milwaukee, Wis. Auditor, T. J. HYMAN, Milwaukee, Wis. General Manager, S. R. AINSLIE, Milwaukee, Wis. General Superintendent, G. CAMPBELL, Milwaukee, Wis. Division Superintendents, E. R. KNOWLTON, Waukesha, Wis. M. B. CUTLER, Waukesha, Wis. A. R. HORN, St. Paul, Minn.

Chief Engineer, F. W. FRATT, Milwaukee, Wis.
Cashier, R. W. McGUIRE, Milwaukee, Wis.
Asst. General Passenger Agent, L. ECKSTEIN, Milwaukee, Wis.
Asst. General Freight Agent, J. B. CAVANAUGH, Wilwaukee, Wis.
Attorney, D. S. WEGG, Milwaukee, Wis.

#### DIRECTORS.

CHAS. L. COLLEY, Milwaukee, Wis. Edwin H. Abbot, Milwaukee, Wis. David S. Wegg, Milwaukee, Wis. Howard Morris, Milwaukee, Wis. Fredk. Abbot, Milwaukee, Wis. Fredk. N. Finney, Milwaukee, Wis. S. R. Ainslie, Milwaukee, Wis. H. C. Barlow, Milwaukee, Wis. T. J. Hyman, Milwaukee, Wis. Colgate Hoyt, New York, N. Y. Chas. H. Ropes, New York, N. Y.

Terms expire at annual election.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—June 17, 1887.

Number of stockholders at date of last election, - - - - - - - 11

Number of stockholders in Michigan at same date, - - - - None.

14,414,504 00

. None. Amount of full paid stock held in Michigan at same date, -Date of annual meeting of stockholders,—First Wednesday in November. Fiscal year of company ends,—June 30. General offices of the company are located at Milwaukee, Wis.

### GENERAL EXHIBIT.

M-4-1:			DEBIT	:•	CREDIT.
Total income, Total expenses, including taxes,	-	-	<b>\$</b> 1,374,484	98	<b>\$</b> 2,013,095 <b>1</b> 3
Net income,	-	-			638,610 15
Interest on funded debt,	_	-	\$580,655	77	
Interest on unfunded debt,	_	_	151,210	23	
Rentals of buildings, tracks, etc.,	_	_	554,107		
Rentals of engines and cars,	-	-	<b>52,283</b>		
Balance for the year,	_	_	<b>\$</b> 397,226	32	
Balance (profit and loss) last year,		_	138,178		
Discount and premium on bond exc	chang	es an		-	<b>\$346,288 20</b>
Balance forward to next year,	-	-		-	189,116 92
			\$535,405	12	<b>\$</b> 535,405 <b>12</b>
ANALYSIS OF	CAP:	ITAL	STOCK.		

r oı	r arti	icles	of	association,	_	<b>\$15,000,000 00</b>
_	\$	100	00	•		
_	144	145	.04			
_		_	_	\$11,787,100	00	
_ •		_				
	- -	- \$: - 144,	. \$100 . 144,145	\$100 00 144,145.04	\$100 00 \$144,145.04 \$11,787,100	144,145.04 2 \$11,787,100 00

Paid in per mile of road owned by company. See note.

Total amount paid in as per books of the company,

Note.—The number of miles of road owned by the Wisconsin Central Company is 226.96. The stock and bonds of the Wisconsin Central Company, however, have been issued in exchange for the securities of other companies with the following mileage: The Wisconsin Central Railroad Company with 352.84 miles, and the Packwaulee & Montello Railroad Company with 7.84 miles. All the securities of these two companies have not yet been exchanged for Wisconsin Central Company securities and the roads belonging to these companies have not yet been deeded to the Wisconsin Central Company. Any figures, therefore, that could be given in reply to questions relative to mileage would be misleading.

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character, and Date of Issue	Rate of Interest,	When Due,	Where Payable,	Amount Outstanding.
W. C. Company 1st mortgage bonds. W. C. Company income bonds. M. St. C. & W. railroad 1st mortgage M. St. C. & W. railroad terminal m't's M., St. C. & W., Minn. tr. pur. money M., St. C. & W., imp. pur. money m't's Chippewa Falls & Western, 1st m't's Wis. & Minn. railroad, 1st mortgage Penokee railroad, 1st mortgage bond St. P. & St. C. Falls, 1st mortgage bood W. C. Company spur notes.	bonds 6% notes 8% notes 8% honds 7%	July 1, 1987. July 1, 1987. May 1, 1915. Dec. 29, 1894. Aug. 1, 1991. Sept. 1, 1906. Sept. 1, 1904. Oct. 1, 1910. Oct. 1, 1987. Nov. 1, 1891. June 19, 1890.	New York. New York. New York. New York. New York. New York. New York. New York. New York. New York. New York. New York. New York.	- 6,604,166 67 200,000 00 400,000 00 70,000 00 215,000 00 150,000 00 68,000 00
Total funded debt				\$18,391,978 38
	UNFUNDED	DEBT.		
For What Incurred.	Is the Same to b	e Funded or How	Liquidated.	Amount.
For construction.  For equipment.  For real estate.  For interest on bonds.  For miscellaneous.  For current balances.				\$1,388,185 24 679,285 14
Total unfunded debt				\$2,067,370 88
-	RECAPITUI	ATION.		
Total funded debt, Total unfunded debt,				8,391,978 38 2,067,370 38
Total debt liabilities,			- 4- \$2	0,459,348 76
Amount of debt liabilities Total amount of stock and Stock and debt per mile of	debt, -		ported.	4,873,852 76
GENE	RAL BALAN	CE SHEET.—I	Or.	
Construction and equiparties of their investments: Upham granite lands an			\$1. ,000 00	4,306,863 57
Securities of other comp accrued interest on sa	anies owned	and r	,106 81	9,125,106 81
Cash items: Cash, Due from agents and co	nductors.		,686 07 ,287 66	-,,
2 at 110m agons and to				.732,973 73

Other assets:									
Materials and supp	lies,	-	-	-	<b>\$</b> 319	2,137	48		
Sinking funds,	_	-		-	1.	4,916	94		
Debit balances from	n comp	anies	and i	n-					
dividuals, -	-	-	-	-	18	1,933	88		
Insurance and pren	nium u	earne	ed,	-	1	0,803	<b>43</b>	<b>9</b> 510 701	79
Profit and loss or is	ncome a	ccoun	ts,	-	-	-		\$519,791 189,116	
Total,	-	-	-	-	-	-	-	<b>\$</b> 34,873,852	76
Ć	ENERA	L BA	LAN(	E SI	ieet.–	-Cr.			
Capital stock,					<b>\$</b> 14,41	4 504	00		
Funded debt,	-	-	-	-	18,39	1.978	38		
runded debt,	-	-	-	-	10,00			<b>\$</b> 32,806, <b>4</b> 82	<b>3</b> 8
Unfunded debt:									
Interest unpaid,					<b>e</b> 20	4,264	aa		
Notes payable,	-	-	-	-		3,870			
Vouchers and acco	nnts	-	-	-		9,235			
Vouchers and dece	u11 w5,	-	-					2,067,370	<b>38</b>
Total,	-	-	-	-	-	_	-	<b>\$</b> 34,873,852	76
	Purch	ased b	y Pres	ent C	ompany	<i>.</i>			
When purchased,—Joriginal cost to present	${f ent}$ ${f com}$	pany,	of ro	ad aı	nd equ	ipmeı	at,	<b>\$</b> 13,790,446	64
Amount expended sin	nce pur	chase,	acco	unt o	f cons	tructi	ion,	1 516 416	93
Total cost to dat Average cost per mil	e of rep	ort,	ot in	- cludi	- ng sidi	- in <i>e</i> s.	-	<b>\$14,306,863</b>	57
226.96 miles.	_					,	_	63,036	94
Proportion of cost for	or Mich	igan,	<b>—13.</b> '	74 mi	les,	_	-	865,565	

Note.—That portion of railway operated by the Wisconsin Central Company which lies in the State of Michigan was constructed by the Gogebic and Montreal River Railroad Company, a corporation under the laws of said State, and was built under a contract whereby all the stock amounting to \$390,000, and all the bonds, amounting to \$390,000, of the Gogebic and Montreal River Railroad Company, were issued to the contractors. When the Wisconsin Central Company became the owner of the Penokee Railroad, it issued to the holders of a like amount of Penokee Railroad Company bonds and stock, its own in lieu thereof; so that, under the ordinarily accepted rules of accounting adopted by accounting officers of railroad companies, the cost of that portion of the line which lies in Michigan amounted to \$780,000, plus that portion of the construction account of the Penokee railroad which included the Gogebic and Montreal River railroad, and which, upon a mileage basis, amounts to \$865,565.25.

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

			MAIN	LIN	Е.					•
Extensions and new	, cidina					<b>Q</b> 5	2,429	20		
				•	-	фU	677			
Bridges, New buildings, New fences,	- 	-	•	-	- '		2,469			
Now forces		-		•	-		887	06		
New fences, Machinery and tool		-	-	•	-		1.390			
A:- bb	в, -	-		•	-		5,388			
Air brakes, _		-	-	•	-		0,000	01	<b>\$</b> 63,243	QK
Total charges to pro Property sold and o	operty redited	accou	nt as	abo	ve, -	<b>\$</b> 6	3,243 145	85 25	Ф00,240	00
Net addition to pro	perty a	ccour	ıt, .		-	-	-	-	63,098	60
	Al	NALY	sis (	OF E	ARN	INGS.				
		PASSI	ENGE	R EA	RNIN	G8.				
Total passenge	r fares,		_	-	_	<b>\$</b> 51	5,249	76		
Express and bags							3,063			
			-	-	-	ĝ	1 459	76		
Other sources,		-	-	-	-	2	1,459 9,238	39		
Other Bources,		-	-	-	-					
Total passenge	r depar	tmen	t ear	ning	8,	_	-	_	<b>\$</b> 619,011	<b>2</b> 3
Proportion for M	ichigar	1.	_	_	_	<b>\$</b> 2	4,553	87		
Per train mile.		<b>,</b>	-	_	_				77	
Per train mile, Per mile of road,		_	_	_	_		1,787	04		
,			T	EAR			,			
		FRE	IGHT	EAR	NING	123.				
Total traffic,	_	_	_	_	_	\$1.37	6,759	92		
Other sources,		-	_	_	_		0,600			
,										
Total freight d	epartm	ent e	arnin	ıgs,	_	_	_		1,387,360	21
Proportion for M						\$5	5,031	41		
Per train mile.		-,	-	-	Ē	•	1	59		
Per train mile, Per mile of road	_	_	_	-	- [		1 4,005	21		
	,	_					,			
Total transport	tation e	arnin	28.	_	_	_	_	_	\$2,006,371	44
Transportation ear	nings r	er mi	le of	roac	l,	. 1	5,792	24		
Transportation ear	aings p	er tra	in m	ile,	·	_	1	18		
Miscellaneous rec	eipts	from	or	erat	ing					
account, other th	an for	trans	porte	ition,	88					
follows:		•	•							
*From rentals of tr	acks or	term	inal	3,	_	-	-	-	6,723	69
Total cominos	from	marat	ion (	of ro	o.d				\$2,013,095	13
Total earnings						- a	- 011	21	₩ <b>2</b> ,010,000	10
Total earnings per	mile of	roac	ı,—ə	<b>±</b> 0.39	mile	es, a	5,811			
Total earnings per	train n	iiie,		Mich!	-			13		
Proportion of taxal	die ear	ungs	:1c	TICUI	gan,	 :	30,548	UZ		
Total taxable earn	ings I	oer m	1116	oi ro	oad :	ın	5,862	ያለ	•	
Michigan,—13.74	: m1168,	. <u>-</u>	-		-	-	0,002	JU		

<sup>\*</sup>Of this amount \$6,201.87 is subject to local taxation. No portion of these earnings in Michigan.

550	550 MICHIGAN RAILROAD RETURNS.											
	Interest and exchange, Discount and premium on bond exchanges and sales,											
Total income	Total income from all sources,											
Proportion of inc	ome fo	r Mic	higa	n,	_	-	_	-	80,548 02			
		ANAL	YSIS	OF	EXPE	NSE	3.		•			
	Class 1.	—Maiı	ntena	nce o	f Way	and I	Buildin	gs.				
Repairs of road w	av and	track	<b>r</b> .						<b>\$142,010</b> 78			
Renewals of rails,			~,	-	-	-	-	-	2,928 30			
Renewals of ties,	_	-		-	-	-	-	-	34,964 76			
Repairs of bridge	s. inclı	iding	culve	erts :	and ca	ttle	znards		20,187 71			
Repairs of fences,	road (	rossi	nøs. s	and s	sions.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5	, -	5,002 01			
Repairs of building	108	-	-6-, -	****	,-B,	-	-	•	22,249 44			
recognits of building	<b>-6</b> 0,	-	-	-	-	•	-	-	##,#10 II			
Total,	-	-	-	-	-	-	-	-	<b>\$</b> 227,343 00			
CL	ass 2.—.	Mainte	enanc	e of I	Motive	Powe	r and C	ars.				
Repairs of locome	tives.								\$69,504 91			
Renairs of passens	oer cer	- va	-	-	-	-	-	-	42,696 13			
Repairs of passens Repairs of freight	t core	υ,	-	-	-	-	-	-	80,800 92			
reopairs of freigh	o Cars,	-	-	-	-	-	-	-				
Total, _	-	-	-	-	-	-	-	-	\$193,001 96			
	CLAS	ss 3.— <i>(</i>	Condu	cting	Trans	porta	tion.					
Fuel for locomoti	Ves.								\$161,070 91			
Water supply,	,	-	-	-		-	-	-	9,008 94			
Oil and waste,	-	-	-	-	-	-	-	-	12,684 00			
Oil and waste, Locomotive service Passenger train se	• •	;		•	•	•	-	_	137,201 05			
Passenger train se	ervice	•	•	-	-	-	-	-	35,283 16			
Passenger train s	nnnlies		-	-	-	-	-	-	10,646 93			
Passenger train so Mileage of passen Freight train serv	oer ca	") ra	-	-	•	_	_	-	1,133 16			
Freight train serv	rice	,	-	-	-	-	-	-	62,538 35			
Freight train sun	nlies	•	-	-	-	•	-	-	1,070 14			
Freight train supp Mileage of freight	t cara	-	-			-	(cred	it. Š				
Telegraph expens	es (ma	inten	ance	and.	onersi	lino)	(0200	-•, /	29,945 15			
Damage and loss	of frei	cht an	d b	aoos	oporu. oa	, <del>, , , ,</del>	, -		6,049 45			
Damages to prope	ertv an	d catt	le.	-66°	50,	-	-	-	4,649 31			
Personal injuries,	or of the	u out	10,	-	-	-	-	-	8,413 59			
Agents and station	n servi	CA.	-	-	-	-	-	-	234,385 37			
Station supplies,	-	-	-	-	_	-	-	-	6,602 60			
Total,	_	_	_	_		_	-	_	\$696,410 92			
•		CLASS	s <b>4</b> .—(	<del>J</del> ener	al Exp	en <b>se</b> s.			,			
Salaries of the ge	neral 4				_				<b>\$45,087 34</b>			
Salaries of clerks					ombar	-J,	-	-	32,361 64			
Law expenses,	gon	J. 161 U	-11000	, -	-	-	-	-	894 29			
Insurance,	-	-	-	-	-	-	-	-	6,283 51			
	-		-	-	•	-	-	_	-,			

5	5	1	L
5			

2000.j	***	DOOLING		J1311 1 2	will	00141			·	
Stationery and pr	intin	g,		-	-	-	-	-	<b>\$</b> 16,254	
Outside agencies	and a	dvertis	ing,	-	-	-	-	-	50,015	
Contingencies,	-	-	_	-	_	-	-	_	44,782	
Taxes,	-	-	-	-	-	-	-	-	62,049	17
Total,	-	-	-	-	-	-	-	-	\$257,729	10
	RE	CAPIT	ULA'	TION	OF E	XPE	ISES.			
							Per Cer Exper			
Maintenance of w	ay an	d build	lings	3,	_	-	16	.54	<b>\$</b> 227,343	00
Maintenance of n					_	_	14	.04	193,001	96
Conducting trons	porta	tion.	_	_ ′	_	_		.67		
General expenses	, incl	iding t	axes	, -	-	-		.75	257,729	
Total operati	ing e	xpense	s, ar	nd tax	ces,	-	100	.00	\$1,374,484	98
Operating expens —346.39 miles,	_	-	-	_	_		<b>\$3,96</b> 8	02		
Operating expens	es and	1 taxes	perı	rain i	mile :	run,		01		
for trains earn	ıng r	evenue	,1,	090.8	or m	ues,		81		
Proportion of ope	ratin	g exper	nses	ior M	ricni	gan,				
main line, tax expenses, .	ces c	eaucte -		om c	-		54,520	59		
Total, propor	tion o	of expe	nses	for N	[ichi <sub>{</sub>	gan,	-	_	<b>\$</b> 54,520	<b>59</b>

## DESCRIPTION OF ROAD.

\$1,843 59 37

Date when the road was opened for use between its present termini: From Ironwood (State line) to Bessemer, June 6, 1887.

Percentage of expenses to earnings,—68%. Net earnings per mile of road Net earnings per train mile,

## MAIN LINE.

In Michigan, from State line In Wisconsin, main line, In Minnesota,	to I	Bessem - -	er, - -	- - -	-	Miles. 100ths. Miles. 100th 6.86 174.44 23.97	15.
Total length completed,	-	-	-	-	-	205.27	
	В	RANCH	E8.				
Michigan, additional track, Wisconsin, additional track, Minnesota, additional track,		-	-	-	- - -	6.88 13.16 1.65	
Total length of branches	_	21.69					
Total length of branches own Michigan, Total length of road belongin	-	_	-	-	-	6.88	

· · · · · · · · · · · · · · · · · · ·
Total length of road belonging to this company in Michigan, 13.74  Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated, 5.07  Aggregate length of tracks in Michigan belonging to this company computed as single track, 18.81  Gauge of track, 4 feet 8½ inches.
Total Miles. In Michigan.
Name, description, and length of each:
Chicago, Wisconsin & Minnesota railroad, 111.59 Branches and additional track, 7.84
Total,
Total miles operated by the company, 346.29 13.74
Number of Bridges and Trestles in Michigan.
Wooden bridges, number of, 2 4; aggregate length, feet, 2 358.5 Wooden trestles, number of, 2 6; aggregate length, feet, 2 3,069.0
Total,
Crossings—Railroad and Highway.
What railroads cross your road at grade in this State, and at what locality? Valley Mine Spur, M. L. S. & W. railroad near Bessemer.  Cross Colby Mine Spur, Wisconsin Central Railroad Company at Bessemer.
Anvil Mine Spur, M. L. S. & W. railway near Bessemer. Cross Palms Mine, Spur Wisconsin Central Company at Bessemer. What railroads cross your road either over or under your grade in this State, and where?
<ul> <li>Under,—</li> <li>M. L. S. &amp; W. Railway at Ironwood, Siemens and Bessemer.</li> <li>D. S. S. &amp; A. Railroad near Bessemer.</li> <li>At what crossings are interlocking and derailing switches in operation?</li> </ul>
None. Number of crossings of highways at grade in this State,5
Number of crossings of highways at grade in this State at which there are gates or flagmen,
Number of crossings of highways over or under railroad, Over,—0, under,—1,
Are your frogs and guard rails blocked as required by act 174, session laws of 1883. Yes.
How are they treated? Filled in with wooden blocks.
Stations.
Number of stations on whole line,
•

# Employés.

				E	imploy	jé <b>s</b> .					
Number of per by compant Same in Mic Classify your	y, inc higar	cludi: 1.	ng off	icials, -	-	-	-	opera - -	ted - -		2,860 116
Baggagemen Brakemen,		-	-	-		-	-	- -	-	}	Number. 187
Conductors, Engineers, Fireman,		- -	-	-	-	-	-	-	-	•	85 · 148 140
Laborers, Shopmen	-	-	- -	- - -	-	-	- -	-	- -		475 479
Yardmen, Others,	-	-	-	-	-	-	-	-	-		146 1,200
			RE	PAIRS	AND I	RENEV	VALS.				
,				Fencin		•	an.				•
How many m			_		-			-		-	3.38
Give the num track, in M	nber Lichie	of mi	iles re and th	quire e cou	d to o	compl in wh	ete f	ence l eeded:	both	sides	of your
Gogebic,	-	-	-	-	-	-	-	٠ -		<b>-</b>	3.17
The line in W. railway miles of fend	from	Iro	y req	l to S	Siemen on on	ns an e side	d bet	f way tween	of t whi	he <b>M.,</b> ch poi	L. S. & nts 3.73
Number of t	rack	sectio									2
Average leng Average num Number of n Number of n Average num New rails Steel, tons 13	th of ber c ew ti ew ti ber c put i	sect of me es pu es pu of ne of trace	cions,- en in out in to the tin to the ties the	-mile each s vhole rack i	ection line d n Mic	gang uring higan	;, - the y	ear,	•	6.8	_
				ROLI	LING	STOCE	K.			10	maant
Number of weight, exc					than	30 t	ons -	Num	40		resent ated Value. eported.
Total, Number of official car		- nger	cars-	8 w]	neel, i	nclud	ing	-	40 22		
Number of ex Number of b	xpres	s and	l bagg t cars	gage c	ars,	- - -	<u>-</u> -		9 552		

			Number.	Present Estimated Value.
Number of stock cars,	-		99	
Number of platform cars,	-	-	197	
Number of ore cars, Number of conductors' way cars,	-		789 25	
Other cars, drop bottom gondols	s.	-	15	
ounce, unop notion gondon	-,			
Total,	-		1,708	Not reported.
Number of locomotives equipped brakes,	d witl	n power	· 40	
Number of passenger-train cars	equip	ned with	30	
power brakes	_		31	
What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse air brake 37 locomotives and				
31 cars; steam brake 3 locomotives.				
Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? Yes.				
What pattern or patterns have you adopted for use? Janney-Hein.				
How are your passenger cars heated? With coal stoves.				
MILEAGE, TRAFFIC, ETC.				
WHOLE LINE.				
Train Mileage.				
Miles run by passenger trains du Miles run by freight trains durin	ring th g the y	e year, rear,		827,8 <b>36</b> 869,0 <b>4</b> 5
Total mileage of trains earni	ng reve	enue, .		1,696,881
Passenger Traffic.				
		Numbers and Quantities.	Miles.	Rate. Dols. Cents.
Total number of passengers carri	ed,	1,169,961		
Total passenger mileage, or passengers carried one mile, 51,449,644				
Average distance traveled by each	- D8880	nger.	43.9	
Average amount received from ea	ch pas	senger,	_	<b>\$</b> 0 90.70
Average rate of fare per mile for	all pas	sengers, _	-	02.06
Freight Traffic.				
		Numbers		Rate.
Total tons of freight carried,	-	and Quantities 2,142,503	_	Dollars. Cents.
Total freight mileage, or tons carried one mile, 282,613,841				
Average ton haul for all freight, 131.91				
Average amount received for each	ton b	anl		\$1 37
Average rate per ton per mile, rec		-	 h	01.039
reade rate ber our her mile' tec	ervea 1	or an rieigi	10, -	01.099

26,672

10,386

55,954

36,362

801,787

482,845

2,142,503

1.25

.49

2.61

37.42

22.54

100.00

1.70

Freight Forwarded	at	Michigan	Stations.
-------------------	----	----------	-----------

								Tons.
Grain,	_	_				_	_	77
Flour,	_	_	_	_	_	_	_	29
Provisions (beef, pork, l	ard .	atc Š	-	-	-	-	-	$\overline{26}$
Animals,	with,	000. /,	-	-	-	-	-	1
	4-	-	-	-	-	-	-	101
Other agricultural produ	icts,	-	-	-	-	-	-	131
Lumber and forest produ	ucts,	-	-	-	-	-	-	7,032
Coal,	_	-	-	-	-	-	-	1,113
Plaster, lime and cemen	t,	_	_	_	_	_	_	31
Petroleum,		_	_	_	_	_	_	1
Other iron and castings,			_					40
Ores,	_	_	_	-	-	_	-	175,574
Stone, brick and sand,	-	-	-	-	-	-	-	1,772
Merchandise and other a	المناس	-	-		ما ما	-	-	2,295
merchandise and other a	rreici	es no	e enur	петак	ou and	ν <del>υ</del> ,	- •	2,230
Total forwarded,								188,122
Iotal lolwarded,	-	-	-	-	-	-	-	100,122
Tommaga	~ # A #	tialaa	T	name a d	En to	lma Da		
Tonnage (	oj Ar	ricies	1 runs	wrieu.	—Enu	re no		<b>7</b> . 0
<b>a</b>							Tons.	Per Cent.
Grain,		-	-	-	-	-	43,401	2.03
Flour,			-	-	-	-	34,134	1.58
Provisions (beef, pork, l	ard, (	etc.),		-	_	_	7,291	.34
Animals,		_	_	_	_	_	20,633	.96
Other agricultural prod	ucts.		_	_	_	_	91,831	4.29
Lumber and forest produ				_	-	-	404,028	18.86
Coal,	uous,		-	-	-	-	68,888	3.22
	·	-	-	- '	-	-	27,779	1.29
Plaster, lime and cement	u <sub>9</sub>	-	-	-	-	-	2,968	
Salt,							7 Y Y N X	.14
Petroleum,	•	-	•		-	-	27,5 <del>44</del>	1.28

#### ADDITIONAL QUESTIONS.

Railroad iron, iron and steel rails,

Merchandise and other articles not enumerated

Pig and bloom iron,

Other iron and castings,

Stone, brick and sand,

Total tons carried,

above.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The Northern Pacific Express Company; it pays to this company all net earnings over and above its expenses of operating on this company's line; a general express business; at the office of the express company, which is in the majority of cases in this company's depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 881.37 miles, belongs to Western Union Telegraph Co.

REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

Killed, . . . . . . None.

#### INJURED.

January 26, Marshall Brooks, Ironwood. Fell on log with side.

May 12, Frederick McConnell, Ironwood. Caught his foot between draw bar and deadwood.

July 31, Michael Cain, Bessemer. Coupling. September 27, Joseph Blicek, Ironwood. Fell from car. October 17, M. J. Mordaunt, Bessemer. Coupling.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Cause of Accident.		Killed.		,	Injured,	
Could be recentled.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
ollisions						
oupling cars.					2	
alling from trains		(			1	
tting on and off trains						
ecellaneous					1	
cobacces on macre		_				
Total					4	

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_
Number of persons injured during the year,	5
Number of casualties purely accidental,	
Number resulting from lack of caution, carelessness, or	
misconduct,	5
Persons killed or injured while intoxicated,	
Trespassers and tramps killed or injured,	_
Suicides,	

#### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

Employés.	Killed.	Injured.	Total.
Baggagemen			
Prakemen onductors			
hgineers iremen aborers			
hopmen ardmen	-	8	
ot classified above			
Total		4	

STATE OF WISCONSIN, COUNTY OF MILWAUKEE, Ss.

Thos. J. Hyman, Auditor, and Howard Morris Secretary, of the Wisconsin Central Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. s. of R. R.] Signed,

T. J. HYMAN, HOWARD MORRIS.

Subscribed and sworn to before me this 24th day of June, A. D. 1890.

WM. SHINEMELL, Notary Public.

• • • . , • · •

## DEPOT AND STATION COMPANIES.

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#### ANNUAL REPORT

#### OF THE

## DETROIT UNION R. R. DEPOT & STATION COMPANY,

For the Year Ending December 31, 1889.

[Filed June 7, 1890.]

#### NAMES AND RESIDENCES OF OFFICERS OF THE COMPANY.

President, JAMES F. JOY, Detroit, Mich. Vice President, JAMES McMILLAN, Detroit, Mich. Secretary, JAMES G. MILLER, Detroit, Mich. Treasurer, JAMES F. JOY, Detroit, Mich.

#### ORGANIZATION, ETC.

When chartered or articles of association filed,—About June 1, 1881.	
Number of stockholders at date of last election,	16
Number of stockholders in Michigan at same date,	15
Date of annual meeting of stockholders,—On first Wednesday in February.	
General offices of the company are located at Detroit, Michigan.	

#### CAPITAL STOCK.

By Whom Subscribed.	Residence,	Number of Shares.	Amount.
James F. Joy. C. H. Buhl. Allen Shelden James McMillan John S. Newberry. M. S. Smith. G. W. Balch	Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan	1,666 % 1,666 % 1,666 % 1,250 1,250 838 % 838 %	\$166,667 00 166,667 00 166,667 00 125,000 00 125,000 00 88,888 00 88,883 00
Total		10,000	\$1,000,000 00

## STOCKHOLDERS, DECEMBER 31, 1889.

		Amount Held
James F. Joy. C. H. Buhl. Caroline Buhl Theodore D. Buhl. Frank H. Buhl. George W. Balch James Joy. James Joy trustee. Frederick Joy. James McMillan Helen H. Newberry, executrix. Helen H. Newberry, trustee. Treuman H. Newberry	Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan Detroit, Michigan	19,200 00 12,500 00 12,500 00 12,500 00 12,500 00 206,200 00 41,200 00

## ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest.	When Due.	When Payable.	Amount.
First mortgage bonds	45	Jan. 1, and July 1	1938	\$800,000 60
Total funded debt				\$600,000 00

#### UNFUNDED DEBT.

There is no unfunded debt. The following is a stateme and funded debt.	ent of the stock
For capital stock of the company, For land used as right of way on rent of 5% on \$8,000,	\$1,650,000 00 8,000 00
Total stock and debt,	\$1,658,000 00
The debt formerly reported as due Connecticut Mutual Company, has been all paid, the balance of \$550,000 was per	Life Insurance aid in 1889.

#### RECAPITULATION.

Total funded debt, first mortgage bonds, I Total debt, being stock, and value of rented	land as	above	\$600,000 00 1,658,000 00
Total indebtedness,	-		\$2,258,000 00
Total stock and debt, as above stated,	_		\$2,258,000 00

## COST.

Of real estate, including	r right	t of w	av	_	_			\$1,300,089 00
Of depot buildings and	fixtur	ee OT W	, -	-	-	-	-	62,196 00
Of elevators and belong	rinos	06,	-	-	-	-	-	303,595 00
Of all other property,	5	-	-	-	-	-	-	584,120 00
or air other property,	-	-	-	-	• -	•	-	
Total cost,	_	_	_	_	_	_	_	\$2,250,000 00
,								, ,
	CASH	PAID '	то сс	RPOR	ATION	i.		
On account of original	capita	l stoc	k.			_		\$1,000,000 00
On account of increase				-	-	-	-	650,000 00
On other accounts, ot	her th	an f	or in	come	acco	unt.	first	,
mortgage bonds, le	ss disc	ount,	_		_		_	600,000 00
		·						
Total cash paid,	-	-	-	-	-	-	-	\$2,250,000 00
		1	TRACE	ζ.				•
Length of single main	trook	mila						3.34
Length of sidings and d	other t	racke	mi	امو	-	-	-	3.50
Dength of braings and	Junoi U	IGCED		100,	-	-	-	· ——
Total track,	_		_		_	_	_	6.84
,, <u></u>	-	_	_	_	_	_	_	
ANALY	2TO OE	ם אים ו	NITNI	NA OF	ים רו	DEN	פינוכ	
ANAUI	219 OF	EAR	MATTAC	NO ALV	אם עו	LPEIN	DEAD.	
		EA	RNIN	G8.				
		EA	RNIN	G8.				
From rentals,		EA -	RNIN -	G8. -	-	_	-	\$80,767 72
From rentals, - From all other sources,	-	- -	RNIN - -	'G8. - -	-	-	-	\$80,767 72 46,984 99
From all other sources,	-	- -	RNIN - -	G8. - -	-	-	-	46,984 99
From rentals, From all other sources, Total earnings,	<u>-</u> -	- -	LRNIN - - -	- - -	-			
From all other sources,	<u>-</u> -	-	- -	-	-	-	-	46,984 99
From all other sources,	<u>-</u> -	-	- - - PENS	-	-	-	-	46,984 99
From all other sources,	- -	- - EX	- -	- - E8.	-	-	-	46,984 99
From all other sources,  Total earnings,	-	EX Op	- - PENS	- - E8.	-	-	-	\$127,752 71
From all other sources,  Total earnings,  Salaries of officers and	- clerks,	EX	- - PENS perativ	- - E8.	-	-	-	\$127,752 71 \$2,000 00
Total earnings,  Total earnings,  Salaries of officers and Management and maint	- clerks,	EX	- - PENS	- - E8.	-	-	-	\$127,752 71 \$127,752 71 \$2,000 00 21,738 69
From all other sources,  Total earnings,  Salaries of officers and	clerks,	EX Op	- PENS. perati	- ES. ng.	_	_	- - - nce,	\$127,752 71 \$2,000 00
Total earnings,  Total earnings,  Salaries of officers and Management and maint Taxes, Miscellaneous, including	clerks,	EX Op	- PENS. perati	- ES. ng.	_	_	- - - nce,	\$2,000 00 21,738 69 4,887 55 11,920 63
Total earnings,  Total earnings,  Salaries of officers and Management and maint Taxes,	clerks,	EX Op	- PENS. perati	- ES. ng.	_	_	- - - nce,	\$127,752 71 \$127,752 71 \$2,000 00 21,738 69 4,887 55
Total earnings,  Total earnings,  Salaries of officers and Management and maint Taxes, Miscellaneous, including	clerks, cenance ag exp	EX Op	PENS.	ES.	and in	_	- - - - nce,	\$2,000 00 21,738 69 4,887 55 11,920 63
Total earnings,  Total earnings,  Salaries of officers and Management and maint Taxes, Miscellaneous, including	clerks, cenance ag exp	EX Op	PENS.	ES.	and in	_	- - - - nce,	\$2,000 00 21,738 69 4,887 55 11,920 63 \$40,546 87
Total earnings,  Total earnings,  Salaries of officers and Management and maint Taxes, Miscellaneous, including Total,  Expenses for operating	clerks, cenance ng exp	EX Op , e, - Denses	PENS.	ES. ng. airs a	and in	- nsura -	-	\$2,000 00 21,738 69 4,887 55 11,920 63
Total earnings,  Total earnings,  Salaries of officers and Management and maint Taxes, Miscellaneous, including Total,  Expenses for operating Expenses for property	clerks, cenance ng exp	EX Op , e, - Denses	PENS.	ES. ng. airs a	and in	- nsura -	-	\$2,000 00 21,738 69 4,887 55 11,920 63 \$40,546 87
Total earnings,  Total earnings,  Salaries of officers and Management and maint Taxes, Miscellaneous, including Total,  Expenses for operating	clerks, cenance ng exp	EX Op , e, - Denses	PENS.	ES. ng. airs a	and in	- nsura -	-	\$2,000 00 21,738 69 4,887 55 11,920 63 \$40,546 87
Total earnings,  Total earnings,  Salaries of officers and Management and maint Taxes, Miscellaneous, including Total,  Expenses for operating Expenses for property	clerks, cenance and exp	EX Op e, e, censes	PENS.	ES. ng. airs a	and in	- nsura -	-	\$2,000 00 21,738 69 4,887 55 11,920 63 \$40,546 87

#### ADDITIONAL INTERROGATORIES.

#### Description and Churacter of Buildings and Other Property.

Passenger houses, brick, number, Passenger houses, wood, number, Freight houses, brick, number, Freight houses, wood, number, Engine or roundhouses, number, Sheds, freight, brick, number, Sheds, fuel, number,  Water tanks, number,  Water front and docks, feet, about,		- - - - - - - - - -		-	- - - - - -	None. 1 None. None. 1 None. None. 2,500
At grade, number, With flagmen, number, Over or under grade, number, Overhead bridges, number, Frogs and guard rails, are they block	- - - eked a	- - - - s reat	ired	- - - by law	- - - v?	19 6 None. None. Yes.

#### Contracts and Leases.

What railroad companies have rented terminal privileges from you during the year and on what terms?

The Wabash Railroad Company pays 7% interest on the cost of the

property occupied by that company under lease dated, A. D. 1881.

Also under a joint agreement the Detroit, Lansing & Northern and Flint & Pere Marquette Railroad Companies pay as rental \$30,000 per annum for the premises and facilities which those companies will use belonging to this company, lease made during 1889. Rent to begin from July 1, 1889, and is the amount above stated.

#### VERIFICATION.

STATE OF MICHIGAN, SS. COUNTY OF WAYNE,

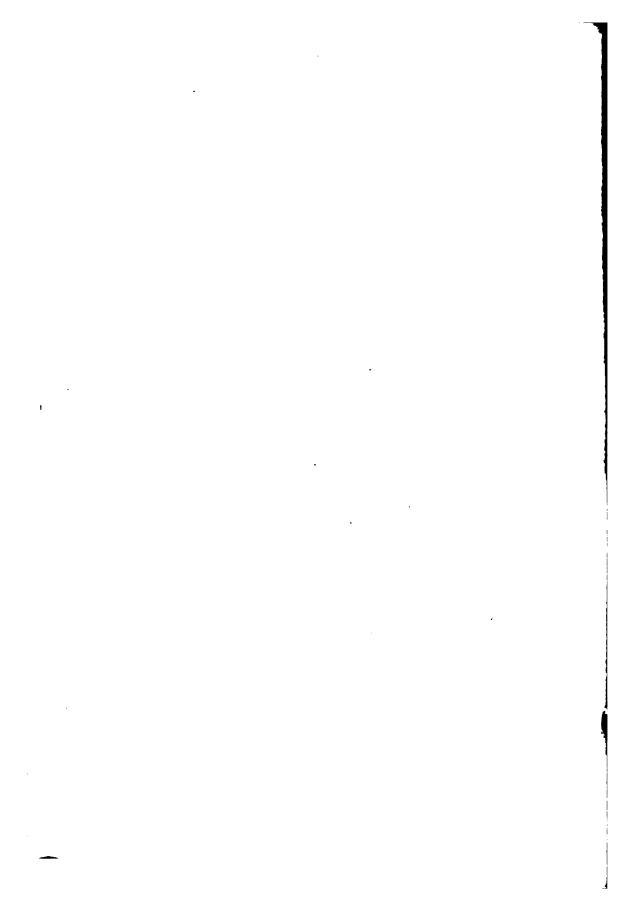
James F. Joy, President, and James G. Miller, Secretary of the Detroit Union Railroad Depot & Station Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of the company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the 31st day of December, A. D. 1889, to the best of their knowledge and belief.

[L. s.] Signed,

JAMES F. JOY. JAMES G. MILLER.

Subscribed and sworn to before me this 5th day of June, A. D. 1890. G. H. STALKER, Notary Public.

# ORE AND FOREST ROADS.



#### ANNUAL REPORT

#### OF THE

## CRAWFORD & MANISTEE RIVER RAILWAY COMPANY,

For the Year Ending December 31, 1889.

[Filed March 8, 1890.]

#### · OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, A. E. CARTIER, Ludington, Mich.

Vice President, JAMES DEMPSEY, Manistee, Mich.

Secretary and Auditor, WM. WENTE, Manistee, Mich.

Treasurer, L. T. DEMPSEY, Manistee, Mich.

General Manager, Superintendent and General Freight Agent,

N. DOWEN, Fletcher, Mich.

#### DIRECTORS.

L. T. Dempsey, Manistee, Mich.
Term expires January 1, 1891.
Wm. Wente, Manistee, Mich.
Term expires January 1, 1892.
Allen McKee, Manistee, Mich.
Term expires January 1, 1893.
A. E. Cartier, Ludington, Mich.
Term expires January 1, 1894.
James Dempsey, Manistee, Mich.

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Term expires January 1, 1895.

When chartered or articles of association filed,—September 28, 1885.	
Number of stockholders at date of last election,	7
Number of stockholders in Michigan at same date,	7
Amount of full paid stock held in Michigan at same date, \$50,000	00
Date of annual meeting of stockholders,—First Tuesday in December of each year.	
Fiscal year of company ends,—December 31.	
General offices of the company are located at Manistee, Mich.	

						=				
		C	ENE	RAL I	EXHIE	BIT.			0	
Takal imaama							T	EBIT.		DIT.
Total income,	•	-	-	-	-	-		-	<b>\$14,7</b> 35	90
Total expenses,	includ	ing ta	xes,	-	-	8.	14,537	71		

56	
ьи	м

MICHIG	ΑN	RAILROAD	RETURNS.

[Dec. 31,

900	MICHIG	AN KAILK	OAD K	ETURNS.	[Dec. 31,
Net income,			-	DEBIT.	CREDIT. \$198 15
Balance for t	he year,		-		<b>\$</b> 198 <b>15</b>
Balance (profit ar	nd loss) las	st year,			7,184 76
Balance forwa	ard to next	year, _	_	<b>\$7,382</b> 93	1
				<b>\$7,382</b> 93	\$7,382 91
	ANALY	SIS OF CA	PITAL	STOCK.	
Amount authorize Par value of share Number of shares Amount paid in o	es, issued,	_ <b>\$1</b> (	les of a 00 00 500	\$50,000 0	\$50,000 00 0
· Total amount as	s per book	s of the cor	npany,		50,000 00
Per mile of road —10 miles,	owned by	company,	-	. \$5,000 0	0
	. ANALY	SIS OF DE	EBT AC	COUNTS.	
		FUNDED	DEBT.	•	
Funded debt,			-		None.
		UNFUNDED	DEBT.	ı	
Unfunded debt,			-		None.
		RECAPITUI	LATION.		
Total amount of a Stock and debt pe			ailes,		\$50,000 00 5,000 00
	GENERA	L BALAN	CE SHI	EET.—Dr.	
Construction acco Equipment accoun		 		\$45,566 56 11,618 16	
Other assets: Debit balances individuals,	from com	panies and	l 		198 15
Total,					\$57,382 91
	GENER	AL BALAN	CE SH	EET.—Cr.	
Capital stock, Profit and loss or	income ac	counts,	-		\$50,000 00 7,382 91
Total,			-		\$57,382 91

## COST OF ROAD AND EQUIPMENT.

Total Cost for Construction and Equipment of	Road, and Branches Built by Company.
--	--------------------------------------

						, ,								
Total expen Average co	ded for	const	ruct f ro	ion an	d equ	nipmen luding	t, sidings.—	-1 <u>0</u>	<b>\$</b> 57,184	76				
miles,			_		_				5,718	48				
Proportion	of cost	for M	ichie	gan,	-	-		-	57,184					
	•	A	LNAJ	Lysis	OF :	EARNI	NGS.							
	FREIGHT EARNINGS.													
Local tra	ffic,	-	-	-	-	-	<b>\$14,73</b> 5	86						
Total to	raffic,	-	-	-	-	-	\$14,735	86						
Total f	reight d	lepartı	ment	t earni	ngs,	-		-	<b>\$14,735</b>	86				
Proportio		Iichig	an,	-	-	-	\$14,735	86						
Per train			-	-	-	-	1 170	54.66						
Per mile	of road	ι,	-	-	-	-	1,473	59						
Total to	ranspor	tation	earı	nings,		-		-	<b>\$14,7</b> 35	86				
Transportat	tion cor	ninos	nar ·	mila o	f ros	d	<b>\$</b> 1,473	59						
Transportat	tion ear	nings	per	train 1	nile,	-		<b>54.66</b>						
Total e	arnings	from	ope	ration	of r	oad,		-	<b>\$14,73</b> 5	86				
Total earning	ngs per	mile o	of ro	oad,	-	-	\$1,473							
Total earning	ngs per	train	$\mathbf{mile}$	) <b>,</b>	•-	_		54.66						
Proportion	of taxa	ble ear	minį	gs for	Mich	nigan,	<sub>-</sub> 14,735	<del>8</del> 6						
Total taxak	ole earn	ings	$\mathbf{per}$	mile o	of re	oad in		~_						
Michigan	l,	-	-	-	-	-	. 1,473	59						
Total is	ncome f	rom a	ll so	urces,		-		-	<b>\$14,7</b> 35	86				
Proportion	of inco	me for	r Mi	chigar	1,	_		-	14,735	86				
•						EXPEN	SES.		·	٠				
	Cr	A88 1	- <b>M</b> a	intenar	ice of	Way a	nd Buildin	gs.						
Repairs of	road wa	v and	trac	k.	_	_	_	_	<b>\$1,</b> 58 <b>4</b>	18				
Renewals of	f rails.	-	-	-		_		_	`					
Renewals o	f ties,	-	-	-	-	-		-	5,936	34				
Total,	-	-	-	-	-	-		-	<b>\$7</b> ,520	<b>52</b>				
	CLAS	ss 2.—	Main	tenanc	e of 1	Motive I	Power and	Cars.						
Repairs of	locomot	ives						•	)					
Repairs of	freight	cars,	-	-	-	-		-	<b>\$2,170</b>	51				
Total,	-	-	-	-	-	-		-	\$2,170	51				

72

_	_		_
5	7	4	. 1

CLASS 3.—Conducting Transportation.												
Fuel for locome Water supply,	otives,	-	-	-	-	-	-	-	<b>\$1,078</b>	49		
Oil and waste,	-	-	-	-	-	-	-	-	' <b>337</b>			
Freight train se	ervice,	-	-	-	-	-	-	-	2,710	90		
Total,	-	-	-	-	-	-	-	-	\$4,126	94		
CLASS 4.—General Expenses.												
Salaries of clerks in general offices, \$477.72 Taxes. \$242.02												
Taxes,	-	-	-	-	-	-	-	-	242	02		
Total,	-	-	-	-	-	-	-	-	<b>\$719</b>	74		
	R	ECAPI	TULA	TION	OF EX	(PNE8	ES.					
								cent of				
Maintenance of	way ar	nd bu	ilding	18,	_	_	-	52	\$7,520			
Maintenance of					,	-	-	15	2,170			
Conducting training General expense					-	-	-	29 4	4,126 719			
Сепегат ехрепа	ses, mei	uamg	uaxe	3,	-	-	-	<del></del>				
Total opera	ating ex	pense	s and	taxes	3,	-	-	100	<b>\$14,537</b>	71		
Operating expended	nses and	l taxes	sper: kes pe	mile c er tra	of roac	i, e	<b>\$1,4</b> 5	3 77				
run, for trains	earning	g reve	nue,–	-9,520	$\mathbf{mile}$	s,		1 54.66				
Proportion of for Michigan	, main l	ine,	репве	- 18 81110	- ,	- -	14,53	7 71				
Total prop	ortion o	f exp	enses	for 1	<b>L</b> ichig	gan,	-	-	<b>\$14,537</b>	71		
Percentage of e Net earnings pe Net earnings pe	er mile e	of ros	ıd,	gs,9 -	8. <b>66</b> % - -	- -	•	9 81 0 28				

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Manistee river to forest terminal, east and south, October 11, 1885.

#### MAIN LINE.

	Miles. 100ths. Miles. 100ths.										
In Michigan, from Manistee river to forest terminal, east and south,	10.00										
Total length completed,	10.00										
BRANCHES.											
Total length of branches owned by company	3.00										

20001	01411	01	w			. 101 1 1	210 101		7711 00.	0,1
Total length in Michig		ranch -	es ow -	ned b	-	ip <b>any</b> -	-		3.00	Miles. 100ths.
·Total length	of ro	ad be	longi	ng to	this c	ompa	ny,	-		13.00
Total lengtl Michigan,		road				s com		<b>n</b> -	13.00	
Aggregate le	ength	of tra pany,	comp	n Mie uted	chigar as sing	belorgle tra	og.			,13.00
Gauge of tr	ack, 3	feet.								
		C	rossin	ıgs—R	ailroa	d and l	ighw (	uy.		
Number of Number of Over,—3. Number of 1	crossi Und	ngs o	f higl 0,	iways	over	or und	ler ra	State ilros	e, _ .d: -	3 3
Number of 1	пин	ay or	rages				CK,	-	-	. O
Number of a			whol		Station , -	ıs. - -	-	-	- -	2 2
	J	•		,	Employ	iés.				
Number of operated b Same in Mic Classify y	oy con chigar	npany 1,	7, incl	arly luding	emplo g offici	yed als,	-	l ro - -	oads - -	31 31
										Number.
Brakemen, Engineers, Firemen, Laborers, Others,	_	- - -	- - - -	- - -	- - -	- - - -	- - -	-	- - - -	1 1 26 2
•			RE	PAIRS	AND B	ENEW	ALS.			
						lichiga				
How many r	niles (	of fen	cing	have ;	you?	None	<b>).</b>			
•				Road .	Bed an	d Trac	k.			
Number of t Average leng Average num Number of r Number of r Average num	gth of nber o new ti new ti	secti of mer es pur es pur	ons (; n in e t in w t in ti	miles ach s hole rack i	), ection line d n <b>M</b> ic	uring higan,	the ye	- - - • <b>ar</b> , -	- - - -	1 10 6 2,000 2,000 200

#### ROLLING STOCK.

		-					Numi	ber. Es	Present stimated Va	due.
Number of lo exclusive o		of 10 -	to 20	tons	weig	ht, -		1	<b>\$4,000</b>	00
Total,		-	-	_	-	-	_	1	\$4,000	00
Number of lo Other cars,	ogging cars,	_	-	-	-	-		34 2	5,100 50	00 00
Total,		-	-	,	-	-	_	36	<b>\$9,150</b>	00
Miles run by	freight tra		Tra	, TRA in Mil the y	eage.		-	-	9,	520
Total mi	leage of tra	ins e	arnin	g reve	enue,	-	-	-	9,	 5 <b>2</b> 0
	Freigh	t For	warde	ed at 1	Lichig	an St	ations.			
Lumber and	forest prod	ucts,	-	-	-	-	-	_	_	ons. 752
Total for	rwarded,	-	-	-	-	-	-	-	60,	<b>752</b>
Tonnage of Articles Transported.—Entire Road.										
Lumber and	forest prod	ucts,	-			_	-	Tons. 60,752	Per (	ent. 0.00
Total to	ns carried,	-	-	-	-	-	-	60,752	100	0.00

STATE OF MICHIGAN, COUNTY OF MANISTEE, 88.

Wm. Wente, Secretary, and L. T. Dempsey, Treasurer of the Crawford & Manistee River Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, WILLIAM WENTE. L. T. DEMPSEY.

Subscribed and sworn to before me this 27th day of February, A. D. 1890.

JOHN W. SIBBEN, Notary Public.

#### ANNUAL REPORT

#### OF THE

## MANISTEE & LUTHER RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed March 18, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President and General Manager, R. G. PETERS, Eastlake, Mich. Secretary and Treasurer, N. W. CAREY, Eastlake, Mich. Attorney, A. J. DOVEL, Manistee, Mich.

#### DIRECTORS.

R. G. PETERS, Manistee, Mich.

H. A. CAREY, Eastlake, Mich.

J. H. Peters, Eastlake, Mich.

G. M. Burr, Manistee, Mich.

A. J. Dovel, Manistee, Mich.

Terms expire April 1, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—March 26, 1886.			
Number of stockholders at date of last election,	-	-	6
Number of stockholders in Michigan at same date,	-	-	6
Amount of full paid stock held in Michigan at same date,	-	-	All.
Date of annual meeting of stockholders,—First Tuesday in April.			
Fiscal year of company ends,—December 31.			
General offices of the company are located at Eastlake, Mich.			

#### GENERAL EXHIBIT.

			DEBIT.	CREDIT.		
Total income, Total expenses, including taxes,	-	-	<b>\$74</b> ,255 11	<b>\$137,388 23</b>		
Net income				\$63 133 12		

Interest on unfunded debt,,	DEBIT. \$8,292 13 2,000 00	CREDIT.
iteliais of buildings, tracks, etc.,		<b>\$</b> 10,292 13
Balance for the year, Balance (profit and loss last year), Balance forward to next year,	\$163,368 08	\$52,840 99 110,527 09
	<b>\$163,368</b> 08	<b>\$</b> 163,368 08
ANALYSIS OF CAPITAL	STOCK.	
Amount authorized by charter or articles of as Par value of shares, \$100 00 No. of shares issued, 4,000	ssociation, .	\$400,000 00
Amount paid in on common,	\$100,000 <b>0</b> 0	100,000 00
Total amount paid in, as per books of the com Paid in per mile of road owned	ipany, -	100,000 00
by company,—64 miles,	<b>\$1,562</b> 50	
ANALYSIS OF DEBT ACC	OUNTS.	
FUNDED DEBT.		
FUNDED DEBI.		
Funded debt,		None.
UNFUNDED DEBT.		
For current balances,		<b>\$</b> 99,284 56
RECAPITULATION.		
Total unfunded debt,		<b>\$</b> 99,284 56
Total debt liabilities,		<b>\$</b> 99,284 56
Amount of debt liabilities per mile of road,—64 Total amount of stock and debt,	4 miles,	1,551 32 \$199,284 56
Stock and debt per mile of road,—64 miles,		3,113 82
GENERAL BALANCE SHE	ET.—Dr.	
Construction account, Equipment account,	\$281,816 93 70,503 85	<b>\$</b> 352,320 78
Other assets:  Debit balances from companies and individuals,		10,331 86
Total,		<b>\$</b> 362,652 64

•	•		-
`	7	ц	'n

1889.] MAN	ISTEE	& LI	J <b>THE</b>	R RA	ILROA	D C	Ю.		575
GENERAL BALANCE SHEETCr.									
Capital stock,	-	-	-	-	-	-	-	\$100,000	00
Unfunded debt:									
Due R. G. Peters, Profit and loss or inco	me acc	- ounts.	-	-		-	-	99,284 163,368	
Total,	_		· •	_				<b>\$</b> 362,652	
CC	ST OF	ROAT	) ANI	D EQT	трме	NT.			
Total Cost for Construction		•		_			es Ri	vilt bu Compo	เทบ
Total expended for con								\$352,320	-
Average cost of constr	uction j	per m	ile of	road,	not in	clud	ing	<b>\$</b> 002,020	10
sidings,—64 miles,	-	_	-	-	-	-	-	5,505	
Proportion of cost for	Michig	an,	-	-	-	-	-	352,320	78
CHARGES AND	CREDI	TS TO	PRO	PERT	TY DUI	RING	THE	E YEAR.	
•		MA	IN LI	NE.					
Extensions and new si	dings,	_	_	_	-	_	_	<b>\$18,255</b>	22
New locomotives and		-	-	-	-	-	-	2,981	74
Total charges to p	roperty	acco	ount,	-	-	-	-	<b>\$</b> 21,236	96
Net addition to pr	operty	accou	nt,	-	-	-	-	21,236	96
	ANAL	ysis	OF E	LARNI	INGS.				
	PAS	BENG:	ER E	ABNIN	GS.				
Main line and branche	es:								
Local fares,	-	-	-	-	•	<b>\$400</b>	69		
Total passenger fare	8, _		-	-		<b>3400</b>	69		
Total passenger d	epartm	ent ea	rning	ζs,	-	_		<b>\$400</b>	69
Proportion for Mich	igan,		_	-	\$	<b>3400</b>	69		
Per mile of road,	-	-	-	-		6	<b>26</b>		
	FI	REIGH	T EA	BNING	8.				
Main line and branche	8:								
Local traffic,	-	-	-	-	<b>\$</b> 136	,987	<b>54</b>		
Total traffic,	-	-	-	-	<b>\$136</b>	,987	54		
Total freight depa	rtment	earni	ings,	-	_	-		136,987	<b>54</b>
Proportion for Mich Per mile of road,	nigan,	-	-	-	\$136 2	,987 ,140			
Total transportation	on earn	ings,		-	-	_	-	\$137,388	23

and the same	ALL GILL			<b></b>			(Doo	. 01,
Transportation earning	s per n	nile of	road,	_ \$	2,146	69		
Total earnings fron	operat	ion of 1	road,	-	_	-	<b>\$137,38</b> 8	23
Total earnings per mile o Proportion of taxable ear Total taxable earnings p Michigan,	137,388	23						
Total income from			-	-	_	-	<b>\$</b> 137,388	23
Proportion of income for	or Michi	gan,		-	-	•	137,388	23
	ANALY	SIS OF	EXP	enses	S.			
Class 1.	-Mainte	,		,	•	<b>78.</b>		
						, )		
Repairs of road way and Renewals of rails, _ Renewals of ties, _ Repairs of buildings,		-	-	- - -		- {	<b>\$10,655</b>	
Repairs of buildings,		-	-	-	-	-	103	<b>59</b>
Total,			-	-	-	-	<b>\$10,758</b>	71
Class 2.—	-Mainten	ance of	Motive .	Power	and (	Cars.		
Repairs of locomotives, Repairs of freight cars,	-	<u>-</u> -	-	-	-	-	\$13,184 6,831	06 22
Total,		_	-	-	-	-	\$20,015	<b>2</b> 8
Cla	ss 3.— <i>Co</i>	nductin	g Trans	sportai	ion.			
Fuel for locomotives,			_	_		_	\$14,400	42
Water supply		-	-	-	-	-	137	11
Water supply, Oil and waste, Locomotive service, Freight train convice		-	-	-	-	-	1,524	
On and waste,		-	-	-	-	-		
Locomotive service,		_		-	-	-	7,037	
Freight train service,		-	-	-	-	-	10,296	
Freight train service, Freight train supplies, Telegraph expenses, ma		_	_	-	_	_	352	
Telegraph expenses, ma	intenanc	e and	operati	nø.			903	84
Damage and loss of frei	ght and	hagga	70	6,	_	-	25	
Damage and loss of free	d settle	naggag	<b>5</b> 0,	-	-	-	141	
Damages to property an	u came,	-	-	-	-	-	171	20
Damages to property an Personal injuries,		-	-	-	-	-	531	20
Total,		-	-	-	-	-	\$35,349	38
	Class 4.	—Gener	al Expe	en <b>ses</b> .				
Salaries of the general of	officers o	f the c	ompany	у, -	-	_	\$2,000	
Insurance,	-			_	_	_	72	00
Stationery and printing	_						18	39
Contingencies,	, -		•	-	-	-	3,176	
	-		-	-	-	-		
Taxes,	-		· -	-	-	-	2,377	<b>34</b>
Total,	-			_	-		\$7,644	24

#### RECAPITULATION OF EXPENSES.

Maintenance of way and buildings, Maintenance of motive power and cars, Conducting transportation, General expenses, including taxes,	Per Cent of Expenses. 15.14 26.94 47.62 10.30	\$11,246 21 20,015 28 35,349 38 7,644 24
Total operating expenses and taxes, -	100.00	<b>\$74,255</b> 11
Operating expenses and taxes per mile of road, Proportion of operating expenses and taxes for Michigan:	<b>\$</b> 1,160 23	
Main line,	74,255 11	
Total proportion of expenses for Michigan,		74,255 11
Percentage of expenses to earnings,—54%. Net earnings per mile of road,	986 46	

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini:

From Eastlake, Michigan to South Line, section 26, 19, 12, June, 1886.

From Eastlake, Michigan to Clement, section 26, 11, 14, June, 1886.

### MAIN LINE.

	Miles. 100ths.	Miles. 100ths.
In Michigan, from Eastlake to South Line, section 26, 19, 12,	37.50	
Total length completed, Total length of branches owned by company,		37.50 26.50
Total length of branches owned by company in Michigan,	26.50	
Total length of road belonging to this company, Total length of road belonging to this company in Michigan, Gauge of track, 3 feet.	64.00	64.00
Total miles operated by the company,	Total Miles. 64.00	In Michigan. 64.00
Number of Bridges and Trestles in Michi	gan.	
Wooden bridges, number of, Wooden trestles, number of 1; aggregate length 1; aggregate length		- 150 60
Total, 4;		_ 210

Total,

## Crossings-Railroad and Highway.

	C	rossing	ys—Ra	ilroad	and H	ighw	ay.				
What railroads cross your road at grade in this State, and at what locality?  Flint & Pere Marquette Railroad at lot 1, section 7, 20, 16.  Grand Rapids & Indiana Railroad at section 15, 19, 12.  At what crossings are interlocking and derailing switches in operation?  Manistee, over Grand Rapids & Indiana.  What pattern or patterns have you adopted?  Gravitt.											
•	Stations.										
Number of stat Same in Michi	tions on	whole	line,	-	-	-	-	-	3 3		
			E		és.						
Number person	a regula	_1	1		-11 -	ahac	ODATA	ted			
by company, Same in Michig	includir	ng offi	cials.	-	_	-	-	-	104		
Same in Michig	gan,	-		_	_	_	-	_	104		
Classify your e											
Classify your e	mi bro y ea	as pe	r tone	Mind	IIBU.				Number.		
Brakemen,	_	_	_	_	_	_	_	_	13		
Conductors, Engineers, Firemen, Laborers, Shopmen	_	_	_	_	-	-	_	_	3		
Engineers.	_			_	_	_	_	_	7		
Firemen.	_	_		_	• _	_		_	7		
Laborers.	_	_			-	-			50		
Shopmen,	-	-	-	-	-	-	-	-	5		
Yardmen, .	-		-	-	-	•	•	-	. 3		
Others,	-	-	_	-	_	_	_	-	16		
			Dond E	ad an	d Traci			•			
	_								_		
Number of track Average length	ck sectio	ns in	Michi	igan,	-	-	-	-	5		
Average length	of secti	ons,—	-miles	,	-	-	· -	-	10		
Average numb	er of me	n in e	ach se	ction	gang,		-	-	4		
Number of nev	v ties pu	t in w	hole l	ine du	iring t	he y	e <b>ar</b> ,	-	12,000		
Number of nev	w ties pu	t in ti	ack in	ı Mic	higan,		-	-	12,000		
Average numb	er of nev	w ties	per m	ile of	road,	-	-	-	2,700		
		_									
•		]	ROLL	ING S	STOCK				D		
							Nun	ber.	Present Estimated Value.		
Number of lo				than	30 to	ns					
weight, exclu	usive of	tender	r,	-	-	-		3			
Number of loc				tons	weig	ht,					
exclusive of	tender,	-	-	-	-	-		3			
							_				
Total,		-	-	-	-	-		6			
Number of pa	99077.00	00 22	Q1	ool ÷-	نة حرام	næ					
official com	esenRet.	Calle-	-0-WU	<del>00</del> 1, 11	iciuul	пR		1			
Number of her	- frainht	-	-	-	-	-		2			
Number of pla	ttom o	COLD,	-	-	-	-		15			
Number of con	morm ca	we	-	-	-	-		3			
official cars, Number of box Number of pla Number of con Other cars,		way (	wig,	-	-	-		236			
Outer cars,		-	-	-	-	-	_	<b>400</b>			

257

Number of locomotives equipped with power brakes,	None.
Number of passenger-train cars equipped with	TAOHO.
power brakes.	None.
Number of freight cars equipped with power	
brakes,	brake.
Are your freight cars being equipped with automatic couplers as reby Act. No. 147, Session Laws of 1885? Regular logging car co	quired
by Act. No. 147, Session Laws of 1885? Regular logging car co	upling.

## MILEAGE, TRAFFIC, ETC.

#### Passenger Traffic.

Number of local passengers carried,	Numbers and Quantities. 890	Miles.	Rate. Dollars. Cents.
1 tumbor of room passongors curricu,			
Total number of passengers carried,	890		
Total passenger mileage, or passengers carr Average distance traveled by each passeng Average amount received from each passe Average rate of fare per mile for local passe Average rate of fare per mile for all passes	ger, nger, ssengers,	13,3 - - -	\$0 45 03 03
Freight Forwarded at Mi	chigan Stations		_
Lumber and forest products,  Merchandise and other articles not enume	rated above,	-	Tons. 95,509 1,115
Total forwarded,	. <u>.</u> .	-	96,624
Tonnage of Articles Transpor	rted—Entire Ro	ad.	
		Tons.	Per Cent.
Lumber and forest products,		95,509	98.85
Merchandise and other articles not enur	nerated	,	00.00
above,		1,115	1.15
Total tons carried,		96,624	100.00

#### ADDITIONAL QUESTIONS.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

31 miles of telephone belonging to this company.

#### REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

#### KILLED.

May 11, Emil Peterson, in construction gang, twenty miles from East-lake. Fell from train; carelessness.

#### INJURED.

Injured,	-	-	-	-	-	-	-	_	-	None.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

('auses of Accident.		Killed.		Injured.				
( Succes of Accordance	Passengers, Employés. Others		Others.	Passengers.	Employés.	Others.		
Collisions					·—-·			
Coupling cars Derailments Falling from trains						• • • • • • • • • • • • • • • • • • • •		
Getting on and off trains.								
Highway crossings Miscellaneous Overhead obstructions								
Trespassers on trains. Trespassers on tracks.								
				<del></del>				
Total		1	'					

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year,	_	-	-	_	-	1
Number of persons injured during the year,	_	-	-		-	
Number of casualties purely accidental,	_	-	-	_		1
Number resulting from lack of caution, careless	nese	s, or	misc	ondu	ict,	
Persons killed or injured while intoxicated,	_	•	-	_	-	
Trespassers and tramps killed or injured,	_	_	_		_	
Suicides,	_	_	_	_	_	

## CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	1	Killed.	Injured,	Total,
			<u> </u>	
Baggagemen.	- -			
Brakemen. Conductors				
Engineers		- • · <i>•</i> - • • • • • • • •		
Firemen.	-			
Laborers				i '
Yardmen				
Not classified above.	·-j-	· • • • • • • • • • • • • • • • • • • •		·
	-		;	
Total.		1	!	] ,

STATE OF MICHIGAN, COUNTY OF MANISTEE, ss.

R. G. Peters, President, and N. W. Carey, Secretary and Treasurer, of the Manistee & Luther Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

R. G. PETERS. N. W. CAREY.

Subscribed and sworn to before me this 8th day of March, A. D. 1890.

RAYMOND D. GILLETT, Notary Public.

#### ANNUAL REPORT

#### OF THE

## GRASS LAKE & MANISTEE RIVER RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed March 19, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, R. R. BLACKER, Manistee, Mich. Vice President and General Manager, PATRICK NOUD, Manistee, Mich. Secretary, M. FOY, JR., Manistee, Mich. Treasurer, WM. WENTE, Manistee, Mich.

#### DIRECTORS.

GEO. KITZINGER, Manistee, Mich. R. R. BLACKER, Manistee, Mich. PATRICK NOUD, Manistee, Mich. M. Foy, Jr., Manistee, Mich. Wm. Wente, Manistee, Mich.

Terms expire December 3, 1889.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

when chartered or articles of association filed,—Febr	uary	4, I	.000				
Number of stockholders at date of last election,	-	-	-	-	-	-	8
Number of stockholders in Michigan at same date,	-	-	-	-	-	-	8
Amount of full paid stock held in Michigan at same d	ate,	-	-	-	-	\$40,000	00
Date of annual meeting of stockholders,—December	31.						
Fiscal year of company ends,—December 31.							
General offices of the company are located at Maniste	e, M	ich.					

## GENERAL EXHIBIT.

GENERAL EXHIBIT.		
Total income,	DEBIT.	CREDIT. \$12,787 32
Total expenses, including taxes,	<b>\$</b> 13,802 66	
Net deficit,	\$1,015 34	
Balance for the year,	<b>\$1,015</b> 34	
Balance (profit and loss) last year,		5,177 63
Balance forward to next year,	<b>\$4</b> ,062 <b>29</b>	
	<b>\$</b> 5,177 63	<b>\$</b> 5,177 63
ANALYSIS OF CAPITAL ST	TOCK.	
Amount authorized by charter or articles of ass Par value of shares, \$100 00 No. of shares issued, 350	ociation, -	<b>\$</b> 52,000 00
Amount paid in on common, Amount paid in on shares not issued,	\$35,000 00 5,000 00	
Total amount paid in, as per books of the compa	any,	40,000 00
Paid in per mile of road owned by company, —12 miles,	<b>\$</b> 3,333 33	
ANALYSIS OF DEBT ACCO	UNTS.	
FUNDED DEBT.		
Funded debt,		None.
UNFUNDED DEBT.		
Unfunded debt,		None.
BECAPITULATION.		
Total amount of stock and debt,	·	<b>\$40,000 00</b>
Stock and debt per mile of road,—12 miles,		3,333 33
GENERAL BALANCE SHEE	ET, Dr.	
Construction account,  Equipment account,	\$32,000 00 8,000 00	<b>\$4</b> 0,000 00
Cash items: Cash,	<u>.</u>	4,162 29
Total,		<b>\$44,162 29</b>

Total,

584 MICHIGAN RA	AILR	DAD RE	TURNS.		[Dec.	31,
GENERAL BA	LAN	CE SHE	ET, Cr.	•		
Capital stock, Profit and loss or income accounts	,	-	 	-	\$40,000 4,162	
Total,	-	-		-	<b>\$44,162</b>	29
· COST OF ROA	D AN	D EQUI	PMENT.			
Total Cost for Construction and Equipment	ment (	of Road, a	and Branch	ies Buil	lt by Compa	ny.
Total expended for construction as Average cost per mile of road, n	nd eq	uipmen cluding	t, sidings,-	$-1\overline{2}$	<b>\$4</b> 0,000	00
miles, Proportion of cost for Michigan,	_	-		-	3,333 40,000	
ANALYSIS	s of	EARNIN	IGS.		<u> </u>	
FREIGH	HT E	ARNINGS.			£	
Through traffic,	-		<b>\$12,787</b>	32		
Total traffic,			\$12,787	32		
Total freight department earn	ings,				<b>\$</b> 12,787	32
Proportion for Michigan, Per train mile, Per mile of road,	-		\$12,787	<b>72.3</b>	,	
Total transportation earnings, Transportation earnings per mile Transportation earnings per train	of ro	ad,	1,065 \$1,065	-	12,787	32
Total earnings from operation Total earnings per mile of road, Total earnings per train mile,	1 of 1	oad,	<b>\$1,06</b> 5	_	12,787	32
Proportion of taxable earnings for Total taxable earnings per mile of Michigan,	r Mic	chigan, d in	<b>\$1,06</b> 5	61	12,787	32
Total income from all sources	8,				<b>\$</b> 12,787	32
Proportion of income for Michiga		-	- <b>-</b>	-	12,787	32
ANALYSIS	S OF	EXPEN	SES.			
CLASS 1.—Maintena	nce oj	f Way an	d Building	<b>78</b> .		
Repairs of road way and track, Renewals of rails, Renewals of ties, Repairs of bridges, including culv Repairs of fences, road crossings,	- - -	- and astt	lo granda	- - -	\$6,681	29
Repairs of fences, road crossings, Repairs of buildings,	and	signs,	  uo Rustas	• - - • .	]	

\$6,681 29

1889.]	GRASS	LAKI	E &	MANI	STEE	RIVE	R	RAILROAI	o co.	ŧ	585
	CLA	ss 2.—	<b>L</b> air	ıtenanc	e of M	otive P	ow	er and Cars			
Repairs of Repairs of	locomot freight	tives, cars,	-	-	-		-			<b>\$</b> 766 785	
Total,	-	-	_	-	-	-	<u>.</u>		-	\$1,552	18
		CLASS	3	-Conduc	eting I	ranspo	orte	ation.			
Fuel for lo	comotiv	es,	-	-	-	-	-			\$1,048	
Oil and wa Locomotiv	ste, e service	_ a	-	-	-	-	-			223 1,678	
Freight tra			-	-			-			1,112	
Total,		_							-	<b>\$4,063</b>	
,		-	_		_			-		<b>\$2,000</b>	
•	. ;			ss 4.—(		_					
Salaries of			ffice	rs of t	he cor	npany	,			<b>\$1,250</b>	
Taxes,	-	-			-	-	-			255	<b>75</b>
Total,	-	-	-	-	-	-	-		_	<b>\$1</b> ,505	75
		RE	CAP:	ITULAT	O NOI	F EXI	PEN	ISES.			
								Per Cent	of		
M-i-4	<b></b>		1	1.32				Expense		<b>a</b> c co1	90
Maintenan Maintenan	ce of wa	iy and Stivo r	Dui	uoings,	- 	-	-	48.41 11.24		\$6,681 1,552	
Conducting	o transn	ortatio	יטאני אווי			-	•	29.44	_	4,063	
General ex	penses,	includ	ing	taxes,	-	-	-	10.91		1,505	<b>7</b> 5
Total	operatin	g exp	ense	s, and	taxes	, -	_	100.00	)	<b>\$13</b> ,802	66
Operating	expense	s and	taxe	es per i	mile o	froad	l,	<b>\$1,150</b> 22	2		
Operating for train	expense	8 and	UBLXE TO THE	s per t	rain n Samil	ue ru	ın,	78	1		
Proportion Michiga	of oper	ating	exp	enses	and to	axes f	or	10	<b>7. 1</b>		
Main line,		-			-	-	-	13,802 66	;		
Total Percentage	proporti						ın,		-	<b>\$1</b> 3,802	66
Net deficit	per mil	e of ro	va q	ar ming	,1.c	N 76		84 61			
Net deficit					-	-		05			
			DES	SCRIPT	ION (	OF RO	) [AC	D.			
Date when From M			_					its presen nber 3, 18		aini:	
•				MAIN	LINE						
In Michiga	an, from	Mani	stee	river t	to fore	st teri	miı	Miles. 100 nal, 12.00		Miles. 100	ths.
Total le	ngth con 74	nplete	d,	-	-	-	-			12.00	0

990		MICH	ЦĠА	N KA	ILKO	AD H	TELO	KNB.		[Dec. 31,
Total length Total length Michigan,								`	. 100th	1.50 Miles. 100ths.
Total length Total length in Michiga Aggregate le	of ro	ad belo	ngir -	ng to t	his c	ompa	iny -	1	3.50	13.50
ing to this Gauge of tra	comp	any, co	mpu	ited as	s sing	le tra	ck,			13.50
Total miles	perat	ed by	the c	compa	ny,	_	_	Total M	iles. 3.50	In Michigan. 13.50
		Cro	ssing	s-Rai	ilroad	and I	Iight	vay.		
Number of c Number of c at which t Are your fro	erossi here s gs and	ngs of l ngs of are gate d guare	nigh high es or l rai	ways a ways flagn	at gra at g nen, ocked	de in rade as re	this in t	State, this St	tate -	None.
174, Sessio	n La	ws 188	3?	-	-	-	-	-	-	Yes.
				St	tation	8.				
Number of a Same in Mic				line,		-	-	-	-	2 2
				E	mploy	és.				
Number per by compar	ıy, inc	cluding						opera	ted	. 22
Same in Mic	_	-	-	- • 11			-	-	-	22
Classify you	_	loyes a	s pe	r follo	wing	list:				1
Brakemen, Engineers,		-	-	-	-	-		-	•	1 1
Firemen,	-	-	-	-	-	-	-		-	î
Others,	-	-	_	-	-	-	-	-	-	19
			REP	AIRS A	AND F	ENEW	7 A T.S.			
			r	encing	in M	ıcnıga	ın.			
How many n	ailes d	of fenc	ing l	ave y	ou?	-	-	-	-	None.
Give the nur sides of y which nee	our t	of mile rack in	s rec	quired ichiga	to co	omple nd th	ete f	ence b ounties	oth in	
Crawford an	d Kal	kaska,		-	-	-	-	-	-	. 24
Total m	iles re	equired	l <b>,</b>	-	-	-	-	-	-	24
			$\boldsymbol{R}$	oad Be	ed an	d Tra	ck.			•
Number of t	rack s	section	s in	Michi	gan.					1
Average leng						-	-	-	-	12
Average nur	nber o	of men	in e	ach se	ction	gang	;,	-	-	5

## ROLLING STOCK.

ROLLING STOCK.									
•	Number.	Present Estimated Value.							
Number of locomotives of 10 to 20 tons weight, exclusive of tender,	1	\$3,000 00							
Total,	1	<b>\$</b> 3,000 00							
Logging cars,	30 1	4,900 00 100 00							
Total,	31	<b>\$</b> 5,000 00							
Number of locomotives equipped with power brakes, None. What patterns of power brakes have you in use, and number of locomotives and cars with each? Hand brake.									
MILEAGE, TRAFFIC, ETC.									
Train Mileage.									
Miles run by freight trains during the year,	- '-	17,680							
Total mileage of trains earning revenue,	-	17,680							
Freight Traffic.									
	ors ntities. Mile ,230	Rate. s. Dollars. Cents.							
Total tons of freight carried, 46	,230								
Total mileage of through freight,	_ 17,	680							
Total freight mileage, or tons carried one mile	462,	300							
Average ton haul for through freight,	-	10							
Average amount received for each ton haul, Average rate per ton per mile received for through f Average rate per ton per mile, received for all frei		\$0 27.66 02.75 02.75							
Freight Forwarded at Michigan Sto	ations.	_							
Lumber and forest products,		Tons. 46,230							
Total forwarded,		46,230							
Tonnage of Articles Transported.—Ent	ire Road.								
Lumber and forest products,	_ 46,5	Tons. Per Cent. 230 100.00							
Total tons carried,	46,5	230 100.00							

STATE OF MICHIGAN, COUNTY OF MANISTEE, Ss.

R. R. Blacker, President, and M. Foy, Jr., Secretary, of the Grass Lake & Manistee River Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

R. R. BLACKER. M. FOY, Jr.

Subscribed and sworn to before me this 17th day of March, A. D. 1890. GEO. A. DUNHAM, Notary Public.

#### ANNUAL REPORT

OF THE

## HOBART & MANISTEE RIVER RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed March 19, 1890.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, JOHN CANFIELD, Manistee, Mich.
Secretary and Treasurer, EDWARD D. WHEELER, Manistee, Mich.
General Manager and Superintendent, HENRY W. MARSH, Manistee, Mich.

#### DIRECTORS.

JOHN CANFIELD, Manistee, Mich. EDWARD D. WHEELER, Manistee, Mich. HENRY W. MARSH, Manistee, Mich. RICHARD G. PETERS, Manistee, Mich. A. O. WHEELER, Manistee, Mich.

Terms expire July 18, 1890.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—July 19, 1879.			
Number of stockholders at date of last election,	-		7
Number of stockholders in Michigan at same date,	-	-	7
Amount of full paid stock held in Michigan at same date,	-	\$60,000	00
Date of annual meeting of stockholders,—Third Wednesday in July.			
Fiscal year of company ends,—December 31.			
General offices of the company are located at Manistee, Michigan.			

### GENERAL EXHIBIT.

GENERAL E	YHIRL	•	
Total income,	-	DEBIT.	Сверіт. <b>\$</b> 32,281 73
Total expenses, including taxes,	-	<b>\$</b> 30,781 73	
Net income,			1,500 00
Balance for the year,			<b>\$1,500 00</b>
Balance (profit and loss) last year, Balance forward to next year,	·	<b>\$17,138</b> 55	15,638 35
		<b>\$</b> 17,138 55	<b>\$17,138</b> 55
ANALYSIS OF CA	PITAL 8	STOCK.	
Amount authorized by charter or article Par value of shares, \$100 No. of shares issued, \$100 No. of sh		sociation, -	<b>\$</b> 60,000 00
Amount paid in on common,		<b>\$</b> 60,000 00	
Total amount paid in as per books of control Paid in per mile of road owned by control 9.24 miles,	ompany, npany,	\$6,493 51	60,000 00

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Funded debt, No	one.
-----------------	------

## UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
or Construction		
or Equipment		
r Real Estate		
or Menewals		
or Current Balances		\$45,58
m., ,		
Total unfunded debt		\$45,58

#### RECAPITULATION.

Total unfunded debt,	-	-	-	-	-	-	-	<b>\$4</b> 5,584 39
Total debt liabiliti	<del>0</del> 8,	-	-	-	-	-	-	\$45,584 39
Amount of debt liabilit Total amount of stock a Stock and debt per mile	and a	debt,	-		_	miles, - -	- - -	4,933 37 105,584 39 11,426 88

# GENERAL BALANCE SHEET, DR.

	GEME	MAY DI	TIAL	IOE BE	eet, Da	••							
Construction ac Equipment acco				-			\$55,716 76 22,000 00						
Other assets:	•						,						
Materials and s Profit and loss,	upplies,	-	-	-			12,229 28 15,638 38						
Total,		-	-	-			<b>\$105,584</b> 39	-					
GENERAL BALANCE SHEET, Dr.													
	GEME	IIVALI DA	LUALIV		MEI, DK	•							
Capital stock, Unfunded debt:	-	-	-	-			_ \$60,000 00	)					
Vouchers and ac	ccounts,		-	-	-		44,938 70	5					
Other liabilities: Tax account,		_					_ 645 68	3					
·								-					
Total,		-	•	-			\$105,584 39	9					
•	COST	OF ROA	D AN	D EQU	IPMENI	<u>``</u>							
Total Cost for Const	ruction ar	ıd Equip	ment	of Road,	and Bra	nches	Built by Company	١.					
Total expended fo				-			<b>\$77,716</b> 76						
Average cost per	mile of	road.	not	includi	ng sidir	198	- <b>•</b> 11,110 10	,					
9.24 miles,				_		-6~7	. 8,410 90	)					
Proportion of cos	t for Mic	chigan,	-	-			77,716 76						
	<b>.</b>	NALYSI	s of	EARNI	NGS.								
		FREIGH	IT E	ARNING	8.								
Local traffic,		-		-	<b>\$32,2</b>	81 7	3						
Total traffic,		-	-		<b>\$</b> 32,2	81 7	3						
Total freight	departm	ent earr	nings	, -			<b>\$32,281</b> 73	3					
Proportion for Mi	ichigan.				<b>\$</b> 32,2	81 7	3						
Per mile of road,		-	ŀ			$9\overline{3}$ 6							
Total transpo	rtation e	arnings	, -	-			\$32,281 73	3					
Transportation ea	rnings p	er mile	of ro	ad,	\$3,4	93 6	9						
Transportation ea					-	20	1						
Total earning	s from o	peration	of	road,			\$32,281 73	3					
Total earnings per	r mila of	mad.—	9.24	miles.	. \$3.4	93 6	9						
Total earnings per	r mne or												
					_	20							
Proportion of tax	r train m able ear:	ile,—16 n <b>ings f</b> o	,000 r Mi	miles, chigan,		81 7	3						
Proportion of tax Total taxable earn	r train m able ear:	ile,—16 n <b>ings f</b> o	,000 r Mi	miles, chigan,			3						
	r train m able earm ings per	ile,—16 nings fo mile of	,000 r Mi road	miles, chigan,		81 7	3	<u>.</u>					

# ANALYSIS OF EXPENSES.

# CLASS 1.—Maintenance of Way and Buildings.

Repairs af road way a Renewals of rails,	_	k, -	-	-	<u>-</u>	_	-	<b>\$10,773</b>	61
Renewals of ties,	_		_	_	_		_ '	1	
Renewals of ties, Repairs of buildings,		-		-	-	-	-	307	82
Total,	-	-	-		-	-	-	\$11,081	43
Class 2	2. Maint	enanc	e of M	otive 1	Power	and Co	ırs.		
Danaina of lacomotive	.~							<b>)</b>	
Repairs of locomotive	8, -	-	-	-		-	-	#9 0F0	177
Repairs of passenger	cars,	-		•		•	-	<b>\$3,078</b>	11
Repairs of passenger Repairs of freight car	.s, _			-	-		-	)	
Total,	_	_			_	_	_	<b>\$3,078</b>	17
,	,							•-,	
(	Class 3	Condi	ıcting	Trans	portat	ion.			
Fuel for locomotives,		_	_	_	_	_	Ţ. `	1	
Water supply								İ	
Water supply, Oil and waste,		•		-		-	-		
Locomotive service,		-		-	-	•	-	! !	
Passenger train service,	-		-			-	•		
Description of the service of the se	36, 1:		-	-			-		
Passenger train suppl Mileage of passenger	1108,	-		-				Ì	
Mileage of passenger	cars,	-	-			-	•		
Freight train service,	-				-	-	-	<b>\$15,390</b>	86
Freight train service, Freight train supplies	S, _	_	_	-	-	-		010,000	00
Mileage of freight car	rs, _	-	_	_	_	-	-	İ	
Telegraph expenses,-	-mainte	nance	and	opera	ting,			1	
Damage and loss of f	reight a	nd be	ggag	θ <b>.</b>	_	_	-		
Damages to property	and cat	tle.		_,					
Personal injuries,	<b>u</b> 21u 0u0	·,	-	-		_	-		
Personal injuries, Agents and station se	rvioo	-				-	-		
Station complian	i vice,	-	•	-		-	-	ł	
Station supplies,	-	-	-	•	•	-	• .	)	
Total,	-	-	-	-	-	-	-	<b>\$</b> 15,390	86
	CLAS	ıs 4.—(	Jenera	l Expe	enses.				
Salaries of the genera	l officer	e of t	he co	mnan	v	•	,	١	
Salaries of clerks in a	reneral d	offices	10 00	mpun,	,	-	-	ł	
	•*		-	•	-	-	-	l	
	-	-	-	•	-	-	-		
Insurance, Stationery and printi Outside agencies and		-	-	-	-	-	-	<b>\$1,231</b>	27
Stationery and printi	ng,		-	-	-		-	1	
Outside agencies and	advertis	sing,	-	-	-	-			
Contingencies,		-					-	1	
Taxes,	-	-	-	-	-	-	- ,	)	
							•		
Total,	-	-	-		-	-	-	<b>\$</b> 1,231	27

# RECAPITULATION OF EXPENSES.

RECAPITULATION OF EXPE	inbed.	
	Per Cent of	
Maintenance of way and buildings,	Expenses. 36.00	<b>\$11,081 43</b>
Maintenance of motive power and cars,	10.00	3,078 17
Conducting transportation,	50.00	15,390 86
General expenses, including taxes,	4.00	1,231 27
Total operating expenses, and taxes, _	100.00	<b>\$</b> 30,781 <b>7</b> 3
Operating expenses and taxes per mile of road, Operating expenses and taxes per train mile run,	<b>\$</b> 3,331 <b>2</b> 6	
for trains earning revenue,—16,000 miles, Proportion of operating expenses and taxes for	1 92	
Michigan, main line,	30,781 73	
Total proportion of expenses for Michigan,		<b>\$</b> 30,781 73
Percentage of expenses to earnings,—95.34 %.  Net earnings per mile of road,  Net earnings per train mile,	\$162 43 09	
DESCRIPTION OF ROAL	).	
Date when the road was opened for use between From Hobart to Manistee river, 1880.	its present	termini:
MAIN LINE.		
In Michigan, from Hobart to Manistee river,	Miles, 16 - 9.2	00ths. Miles. 100ths.
Total length completed,		- - 9.24
Total length of road belonging to this company, Total length of road belonging to this company		9.24
in Michigan,	9.2	4 .
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated,	_ 10.0	0
Aggregate length of tracks in Michigan belong-		-
ing to this company, computed as single track, Gauge of track, 3 feet.	- <b>-</b>	19.24
Cauge of track, 5 feet.	Total l	liles. In Michigan.
Total miles operated by the company,	{	9.24
Number of Bridges and Trestles in	Michigan.	
Wooden trestles, number of, 2; aggregate	length, fee	t, <sub>-</sub> 685
Total,		_ 685
Crossings—Railroad and High	way.	
Number of crossings of highways at grade in thi	s State, _	1
Stations.		
Number of stations on whole line, Same in Michigan, 75	: :	2 2

### Employés.

Employés.
Number persons regularly employed on all roads operated by company, including officials,
Brakemen,       6         Engineers,       2         Firemen,       2         Others,       30
Road Bed and Track.  Number of track sections in Michigan,  Average length of sections,—miles,  Average number of men in each section gang,  4
ROLLING STOCK.  Number of locomotives of 10 to 20 tons weight, exclusive of tender, 2 2 \$12,000 00
Total, 2 \$12,000 00
Number of platform cars,       6       1,200 00         Log cars,       36       7,200 00
Total, 42 \$20,400 00
Number of locomotives equipped with power brakes, 2
MILEAGE, TRAFFIC, ETC.  Train Mileage.  Miles run by freight trains during the year,—estimated,
Total mileage of trains earning revenue, 16,000 FREIGHT TRAFFIC.
Numbers and Quantities. Number of tons of local freight carried,  Numbers and Quantities.  103,300  103,300
Total tons of freight carried, _ 103,300
Total mileage of local freight, 723,100
Total freight mileage or tons carried one mile, _ 723,100
Average ton haul for local freight,  Average ton haul for all freight,  Average amount received for each ton haul,  Average rate per ton per mile, received for local freight,  Average rate per ton per mile, received for all freight,  04.50

# Freight Forwarded at Michigan Stations.

Lumber and forest products,			_		•	_	_	Tons. 103,300
Total forwarded,		, -	-	-	_	-	-	103,300

### Tonnage of Articles Transported.—Entire Road.

Lumber and forest products,		-	-	-	_ 103,		100.00
Total tons carried,					_ 103,	200	100.00
TOWN WITS CALLIED.	-	-	-	-	- TO9*	บบบ	100.00

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

### KILLED.

Killed, None.

# INJURED.

January 9, George Sternhoff, brakeman. Fell from locomotive; arm injured.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

	Killed.		Injured.				
Passengers,	Employés.	Others.	Passengers,	Employés.	Others.		
				1			
			<b> </b>		<b></b>		
·			ļ				
				1			
		Passengers. Employés.	Passengers. Employés. Others.	Passengers, Employés. Others. Passengers,	Passengers. Employés. Others. Passengers. Employés.		

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year, .	-	_	-	
Number of persons injured during the year,	_	-	-	1
Number of casualties purely accidental,	-	-	-	
Number resulting from lack of caution, careles	sness	or I	nis-	
conduct,	-	-	-	1
Persons killed or injured while intoxicated,	-	-	-	
Trespassers and tramps killed or injured,	-	-	-	
Suicides,	-	-	-	

### CLASSIFICATION OF EMPLOYES.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Bagggemen Brakeman			
Brakemen. Conductors Ragineers			
Firemen Laborers	l		
Shopmen. Yardmen Not classified above.			
Total		1,	:

STATE OF MICHIGAN, SS. COUNTY OF MANISTEE,

John Canfield, President, and Edward D. Wheeler, Secretary, of the Hobart & Manistee River Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

JOHN CANFIELD. EDWARD D. WHEELER.

Subscribed and sworn to before me this 17th day of March, A. D. 1890.

Chas. C. Young, Notary Public.

### ANNUAL REPORT

#### OF THE

# NORTH BRANCH & SAUBLE RIVER RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed March 25, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, General Manager and Superintendent, C.D. DANAHER, Ludington, Mich. Vice President and Attorney, M. B. DANAHER, Ludington, Mich. Secretary and Treasurer, JAS. E. DANAHER, Ludington, Mich.

#### DIRECTORS.

$\alpha$	D	D	Ludington.	Mich
C 2.	1).	DANAHER.	Ludington.	Mich.

J. E. DANAHER, Ludington, Mich.

M. B. DANAHER, Ludington, Mich.

J. D. HARRINGTON, Ludington, Mich.

M. A. DANAHER, Ludington, Mich.

Terms expire July 11, 1890.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—June 8, 1888.				
Number of stockholders at date of last election,	-	-	-	7
Number of stockholders in Michigan at same date,	-	-	-	7
Amount of full paid stock held in Michigan at same date, -	-	-	-	\$20,000 00
Date of annual meeting of stockholders,—June 11.				
Fiscal year of company ends,—January 31.				
General offices of the company are located at Ludington, Mich.				

### GENERAL EXHIBIT.

TD-4-1 2				DEBI	т.	CREDIT.	-
Total income, Total expenses, including taxes,	-	-	\$9,163 29			<b>\$</b> 12,389	44
Net income,	-	-	-	-	-	3,226	15
Balance for the year.	_		_	_		<b>\$</b> 3.226	15

111	HOMEGAM I	RETITIO	<i>J2</i> 110 10		LULIU.		[Dec or
<b>.</b>					DEBI	T.	CREDIT.
Balance (profit and lo Balance forward to no		ı <b>r,</b> -	-	*	14,123	42	\$10,897 27
1				\$]	L <b>4,12</b> 3	42	<b>\$14,12</b> 3 <b>42</b>
	ANALYSIS (	OF CA	PITAL	STO	CK.		
Amount authorized b	y charter or	articl	les of a	ssoci	ation	, -	\$50,000 00
Par value of shares, No. of shares issued, Amount paid in on co	<u>.</u>	. \$1	00 00 200 -	\$2	<b>20,00</b> 0	00	
Total amount paid in, Paid in per mile of ros —10 miles,				•	y, \$2,000	-	\$20,000 00
AN	ALYSIS OF	DEBT	ACCO	UNTS	3.		
	, FUI	NDED 1	DEBT.				
Funded debt,		-	-	-	-	-	None.
	UNF	UNDED	DEBT.				
For construction and	equipment,	-	-	-	-	-	<b>\$</b> 16,733 91
	RECA	APITUI	ATION	,			
Total unfunded debt,		7.	-	-	-	-	<b>\$</b> 16,733 91
Total debt liabili	ties, _	-	-	-	-	-	<b>\$</b> 16,733 91
Amount of debt liabil	lities per mi	le of r	oad,—	10 m	iles,	-	1,673 09
Total amount of	stock and de	ebt,	-	-	-	-	<b>\$</b> 36,733 91
Stock and debt per m	ile of road,-	—10 m	iles,	-	-	-	3,673 09
G	SENERAL B	ALAN	CE SH	EET,	Dr.		
Construction and equi	ipment acco	unt,	-	_	_	-	<b>\$</b> 50,857 33
Total,	- •		_	_	-		<b>\$</b> 50,857 33
(	BENERAL B	BALAN	CE SE	EET.	Cr.	•	
Capital stock, Unfunded debt:		-	, -	-	-	-	<b>\$</b> 20,000 00
Other liabilities, Profit and loss or inco	ome account	- 8, -	-	-	-	-	16,733 91 14,123 42
Total,		_	-	_	-	_	<b>\$</b> 50,857 33

# COST OF ROAD AND EQUIPMENT.

COST OF ROAD AND EQUIPMENT.		
Total Cost for Construction and Equipment of Road and Branches Built by	y Compa	ny.
Average cost per mile of road, not including sidings,—10	\$50,857	
miles, Proportion of cost for Michigan,	5,085 50,857	
ANALYSIS OF EARNINGS.		
FREIGHT EARNINGS.		•
Local traffic,		
Total traffic, \$12,389 44  Total freight department earnings, \$	\$12,389	44
	<b>\$12,000</b>	11
Proportion for Michigan,		
Total transportation earnings,	<b>\$12,389</b>	44
Transportation earnings per mile of road, \$1,238 94		
Total earnings from operation of road,	<b>\$12,389</b>	44
Total earnings per mile of road, \$1,238 94		
Total income from all sources,	<b>\$12,389</b>	44
Proportion of income for Michigan,	12,389	44
ANALYSIS OF EXPENSES.		
RECAPITULATION OF EXPENSES.		
Maintenance of way and buildings,  Maintenance of motive power and cars,  Conducting transportation,  General expenses, including taxes,	<b>\$</b> 9,163	29
Total operating expenses and taxes,	<b>\$</b> 9,163	29
Operating expenses and taxes per mile of road, Proportion of operating expenses and taxes for Michigan, main line, 9,163 29		
	-00-	
Total proportion of expenses for Michigan,	<b>\$</b> 9,163	29
Percentage of expenses to earnings,—73.96 %.  Net earnings per mile of road,  322 61		
DESCRIPTION OF ROAD.		

.Date when the road was opened for use between its present termini:

From section twenty-one, town eighteen north, range fifteen west, to section four, town nineteen north, range fifteen west, August, 1888.

# MAIN LINE.

		Miles, 100ths,	Miles. 100ths.
In Michigan, from Section 21, T. 18 N., R. 15 Section 4, T. 19 N., R. 15 W.,	W., to	10.00	
Total length completed,			10.00
Total length of road belonging to this comparator Total length of road belonging to this comparation, Michigan,  Aggregate length of tracks in Michigan belonging	any in	10.00	10.00
to this company, computed as single track,	-		10.00
Gauge of track, 3 feet.			
Total miles operated by the company,	-	otal Miles. 10.00	In Michigan. 10.00
Crossings—Railroad and H	ighway.		
What railroads cross your road at grade in th Flint & Pere Marquette railroad at Maniste At what crossings are interlocking and deraili None.	e Junctio	on.	•
Number of crossings of highways at grade in	this S	tate?	3
number of crossings of highways at grade in	- ULL 0	·	•
Stations.		· .	)
Stations.  Number of stations on whole line,		- -	2 2
Number of stations on whole line, Same in Michigan,		- -	2
Stations.  Number of stations on whole line, Same in Michigan, Employés.	: :	- -	2
Stations.  Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all r	 	- -	2 2
Stations.  Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all reby company, including officials,	 	- -	2
Stations.  Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all r	oads oper	- -	2 2 2 12 12
Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all reby company, including officials, Same in Michigan,  Classify your employés as per following list	oads oper	- -	2 2 2 12 12 Number.
Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all r by company, including officials, Same in Michigan,  Classify your employés as per following list  Brakemen, Conductors,	oads oper	- -	12 12 12 Number.
Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all r by company, including officials, Same in Michigan,  Classify your employés as per following list  Brakemen, Conductors, Engineers,	oads oper	- -	12 12 12 Number. 2 2
Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all r by company, including officials, Same in Michigan,  Classify your employés as per following list  Brakemen, Conductors, Engineers, Firemen,	oads oper	- -	12 12 12 Number. 2 2 2 4
Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all r by company, including officials, Same in Michigan,  Classify your employés as per following list  Brakemen, Conductors, Engineers,	oads oper	- -	12 12 12 Number. 2 2
Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all r by company, including officials, Same in Michigan,  Classify your employés as per following list  Brakemen, Conductors, Engineers, Firemen,	oads oper	- -	12 12 12 Number. 2 2 2 4
Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all r by company, including officials, Same in Michigan,  Classify your employés as per following list  Brakemen, Conductors, Engineers, Firemen, Others,	oads oper	- -	12 12 12 Number. 2 2 2 4
Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all reby company, including officials, Same in Michigan,  Classify your employés as per following list Brakemen, Conductors, Engineers, Firemen, Others,	oads open	- -	12 12 12 Number. 2 2 2 4 2

### ROLLING STOCK.

NT 1 61 /*		10 / 00		. ,		Number.	Present Estimated Value.
Number of locomotives exclusive of tender,					nt, -	2	<b>\$7,000</b> 00
Total,	-	-	-	-	-	2	<b>\$7,000 00</b>
Number of platform car	rs,	-	-	-	. <b>-</b>	50	7,000 00
Total,	-	-	_	-	_	50	<b>\$14,000 00</b>

STATE OF MICHIGAN, COUNTY OF MANISTEE, SS.

C. D. Danaher, President, and Jas. E. Danaher, Secretary, of the North Branch & Sauble River Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

[L. S. OF B. B.]

Signed,

C. D. DANAHER. JAS. E. DANAHER.

Subscribed and sworn to before me this 24th day of March, A. D. 1890.

J. D. HARRINGTON, Notary Public.

# ANNUAL REPORT

#### OF THE

# BEAR LAKE & EASTERN RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed April 22, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, General Manager and Auditor, GEO. W. HOPKINS, Bear Lake, Mich. Secretary, D. H. HOPKINS, Bear Lake, Michigan.

Treasurer, ELLA S. HOPKINS, Bear Lake, Michigan.

General Superintendent, C. G. WAREHAM, Bear Lake, Michigan.

Superintendent of Telegraph, Cashier, General Passenger and Freight Agent,

JOHN E. BOWEN, Jr., Bear Lake, Michigan.

### DIRECTORS.

GEO. W. HOPKINS, Bear Lake, Michigan.
D. H. HOPKINS, Dallas, Arkansas.
E. S. HOPKINS, Bear Lake, Michigan.
M. J. HOPKINS, Dallas, Arkansas.
M. E. H. Collins, Bear Lake, Michigan.

Terms expire January 1, 1890.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—January 24, 1882.		
Number of stockholders at date of last election,	-	7
Number of stockholders in Michigan at same date,	-	. 7
Amount of part paid stock held in Michigan at same date,	-	\$117,600 00
Date of annual meeting of stockholders,—First Monday in February.	•	
Fiscal year of company ends,—December 31.		
General offices of the company are located at Bear Lake, Michigan.		

# GENERAL EXHIBIT.

G.E	ener.	AL E	XHIB.	IT.				
Total income,					DEB	T.	CREDI \$10,708	
Total moome,	-	-	-	-	-	-	<b>410,100</b>	
Total expenses including taxe	8,	-	-		<b>\$</b> 5,962	97		
Net income,	-	-	-	-	•	-	<b>\$4,74</b> 5	<b>64</b>
Interest on funded debt, Interest on unfunded debt,	-	<b>\$</b> 484 <b>74</b> 6			<b>\$</b> 1,230	09		
Balance for the year, Balance (profit and loss) last	year,	-	- -	-	-	-	<b>\$</b> 3,515 11	55 34
Balance forward to next year,	,	-	-		<b>\$</b> 3,526	89		
					<b>\$</b> 3,526	89	\$3,526	89
ANALYS	sis o	F CA	PITAL	st	OCK.			
Amount authorized by charte	r or e	articl	es of a	1880	ciation,	-	\$250,000	00
Par value of shares, No. of shares issued,	-		<b>\$</b> 100 1,0 <b>4</b> 6					
Amount paid in on common,	-	-	_	8	104,664	00		
Total amount paid in, as per Paid in per mile of road o pany,—miles, 18,	books wned	of to	he cor com-	npa	ny, <b>\$</b> 5,814	- 66	<b>\$104,664</b>	00
ANAT.VS	TS OF	ואותי	Rጥ ልብ	ron	INTPQ			

### ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, Character and Date of Issue.	Rate of Interest,	When Due.	Where Payable.	Amount.
Second mortgage bond	8%	September 1, 1890	Grand Rapids.	\$8,000 00
Total funded debt				\$8,000 00

# UNFUNDED DEBT.

For what Incurred,	Is the Same to be Funded, or How Liquidated.	Amount,	
For equipment			
For real estate For renewals For miscellaneous For current balances	To be paid from net earnings		
Total unfunded debt		\$10,554 14	

# RECAPITULATION.

Total funded debt,	\$6,000 00 10,554 14
Total debt liabilities,	<b>\$16,554 14</b>
Amount of debt liabilities per mile of road,—18 miles,	919 67
Total amount of stock and debt,	\$121,218 14
Stock and debt per mile of road,—18 miles,	6,734 33
GENERAL BALANCE SHEET.—Dr.	
Construction account, \$93,744 74 Equipment account, 30,215 72	ė100 000 <i>10</i>
Other assets:	\$123,960 46
Material and supplies,	784 57 
Total,	<b>\$124,74</b> 5 03
GENERAL BALANCE SHEETCr.	
Capital stock,	\$104,664 00 6,000 00
Unfunded debt: Notes payable, \$4,160 47	
Other liabilities:	
·	10,554 14
Profit and loss or income accounts,	3,526 89
Total,	<b>\$</b> 124,7 <b>4</b> 5 03
COST OF ROAD AND EQUIPMENT.	
Total Cost for Construction and Equipment of Road and Branches Bu	ilt by Company.
Total expended for construction and equipment, Average cost per mile of road not including sidings,	<b>\$123,960 46</b>
—18 miles, Proportion of cost for Michigan,	6,886 69 123,960 46
ANALYSIS OF EARNINGS.	,
PASSENGER EARNINGS.	
Main line and branches: Local fares,	
Total passenger fares,	
Total passenger department earnings,	<b>\$</b> 85 <b>3</b> 6

1999.]	BEAR L	AKE	OC PLA	12.Lit	in Ka	TIKOAD (	<i>J</i> O.	•	000
Proportion for Per train mile, Per mile of roa	_	- -	- - -	·	-	<b>\$</b> 85	36 02.13 74		
		FI	REIGH	T EAR	RNINGS	<b>l.</b>			
Main line and l Local traffic,		-	_	-	-	<b>\$</b> 10,623	25		
Total traffic,	-	-	-	-	-	<b>\$</b> 10,623	25		
Total freig	ht depart	ment	earni	ings,	-		-	<b>\$</b> 10,623	<b>25</b>
Proportion for Per train mile, Per mile of roa	-	1, - -	- -	-	-	\$10,623 2 590	65		
Total trans	portation	earn	ings,		-		-	<b>\$10,708</b>	61
Transportation Transportation					i,	<b>\$594 2</b>	92 68		
Total earn	ings from	oper	ation	of re	oad,		-	<b>\$10,708</b>	61
Total earnings Total earnings	per mile per train	of ro mile	ad,	-	-	- <b>\$</b> 594	92 68		
Proportion of to Total taxable ed Michigan,						 <b>\$</b> 594	92	<b>\$</b> 10,708	61
Total incom	ne from s	ll so	urces,					<b>\$10,708</b>	61
Proportion of i	income fo	r Mi	chiga	n,	-		-	10,708	61
	1	ANAI	ysis	OF I	EXPE	ISES.			
	CLASS 1	_Mai	ntenar	nce of	Way a	nd Buildin	<b>78.</b>		
Repairs of road Repairs of fend	d way and es, road c	l trac rossi	k, ngs, a	nd si	gns,		-	<b>\$1,304</b> 80	44 55
Total,	-	-	-	-	-		-	\$1,384	99
	CLASS 2.—	Main	tenanc	e of M	otive 1	Power and (	Cars.		
Repairs of local Repairs of freign			-	-	-		-	\$274 549	
Total,	-	-	-	-	-			\$824	18
	CLA	ss 3	-Condi	ıcting	Trans	portation.			
Fuel for locom	otives,	_	··	_	_		_	<b>\$</b> 651	05
Water supply,	-	-	-	-	-		-	6	00
Oil and waste,		-	-	-	-		-	235	
Freight train se Station supplies		- -	-	-	-		-	2,648 20	
Total,	· -	-	-	-	-		-	<b>\$</b> 3,562	

606	MIC	HIGA	n ra	ILRO	DAD I	RETU	RNS.	, -	[Dec.	31,
		Ctas	s 4.—	Gener	ıl Em	enser.				
Contingencies, Taxes,	-	-	- -	-	- - -	- -	· •	-	\$10 180	
Total,	-	-	-	-	-	-	-	-	<b>\$</b> 191	<b>56</b>
	B	ECAPI	TULA	TION	OF EX	PENS	E8.			
								ent of		
Maintenance of w	79W 9N(	d hnil	dinos				Expe 23	nses. 3.22	<b>\$1,384</b>	99
Maintenance of n	notive	nowe	and	osts.	-			3.82	824	
Conducting trans				-	-			.73	3,562	
General expenses			taxes	, -	_			3.23	191	<b>56</b>
Total operating	g exper	ises, s	nd te	axes,	-		100	0.00	<b>\$</b> 5,962	97
Operating expens	es and	taxes	ner	mile	of ro	had			•	
-18 miles,	_	-	_	_	_	_	<b>\$</b> 331	27		
Operating expens	es and	taxes	per t	rain 1	nile r	un,				
for trains earn	ing re	venue	,— <del>4</del> ,	000 n	iles,	_	1	49		
Proportion of ope	erating	expe	nses	and t	axes	for				
Michigan:							£ 060	07		
Main line,		. :	-		-	-	5,962	91	<b>=</b> 0.00	~=
Total propor	tion of	f expe	nses	for N	Lichig	gan,			5,962	97
Percentage of ex	manga	a to	aarni	m 079	_55 <i>0</i> (_					
Net earnings per				пgo,	00 70	•	<b>26</b> 3	64		
Net earnings per				-	-	-		18		
0.		•								
		DES	CRIP	TION	OF I	ROAI	).			
Date when the	road v	VAS OT	ened	for n	se be	twee	n ita m	resent te	rmini:	
From Pierport,		_					_			<b>197</b>
Trom Troport,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,	pic C	11010,	, milo	rieni,	4	JOI 1, 10	ωι.
	•		MA	IN L	INE.			•		
T 36: 11	-						Mi		Miles. 10	Othe.
In Michigan, from	n Pier	port t	o Ma	ple G	rove,	-	-	18.00		
Total length	com	plete	<b>1</b> ,	-	-	-	-		18.0	0
Total length of re	ad be	longir	or to	thie c	omno	77.37			18.0	<u> </u>
Total length of r	oad be	longi	ng to	this	comp	anv			10.0	•
in Michigan	-	_	_		- -	- -		18.00		
Aggregate length	of tra	cks ir	Mic	higai	a belo	ngin	g –			
to this company	, com	puted	as si	ngle	track	, .	-		18.0	0
Gauge of track, 3	feet.									
Total miles oner	otod h	w tha	00m	nanu				Total Mi	les, In Mileb ∩∩ 16	
Total miles oper						<b>-</b>	<u>-</u>	•	·· 10	3.00
÷	Numbe	r of B	ridges	and!	I'restle	s in l	Hichiga	n.		
Wooden bridges,			_				length		-	96
Wooden trestles,	numbe	er of,	-	2;	aggre	gate	length	, feet,	-	700
Total,	-	-	-	5;	-		. <u>-</u>	-	-	796

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.

Number of crossings of highways over or under railroad: Over,—12. Under,—1, Are your frogs and guard rails blocked as required by act 174, session laws 1833?  Stations.  Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all roads operated by company, including officials, Same in Michigan,  Classify your employés as per following list:  Engineers, Firemen, Laborers, Others,  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you? Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed: Manistee county,  Road Bed and Track.  Number of track sections in Michigan, Average length of sections,—miles,  13  13  13  13  13  13  14  15  16  17  18  18  18  18  18  18  18  18  18	1889.]								DAD	, .		607
Number of crossings of highways over or under railroad:  Over,—12. Under,—1,  Are your frogs and guard rails blocked as required by act 174, session laws 1883?  Stations.  Number of stations on whole line,  Same in Michigan,  Employés.  Number of persons regularly employed on all roads operated by company, including officials,  Same in Michigan,  Classify your employés as per following list:  Engineers,  Firemen,  Laborers,  Others,  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:  Manistee county,  Total miles required,  Road Bed and Track.  Number of track sections in Michigan,  Average length of sections,—miles,  ROLLING STOCK.  Number of passenger cars—8-wheel, including official cars,  Number of platform cars,  1 1,000 00  Number of platform cars,  53 16,215 72  Other cars,  14 3,500 00			Cros	sings-	-Ra	ilroad	and E	ighw	ay.			
Over,—12 Under,—1, Are your frogs and guard rails blocked as required by act 174, session laws 1883?  Stations.  Number of stations on whole line, Same in Michigan,  Employés.  Number of persons regularly employed on all roads operated by company, including officials, Same in Michigan,  Classify your employés as per following list:  Engineers, Firemen, Laborers, Others,  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you? Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:  Manistee county,  Total miles required,  Road Bed and Track.  Number of track sections in Michigan, Average length of sections,—miles, Average number of men in each section gang,  ROLLING STOCK.  Number of passenger cars—8-wheel, including official cars, Number of platform cars, 1,000 00  Number of platform cars, 53 16,215 72 Other cars, 14 3,500 00	Number of cr	rossings	of h	ighw	ays	at gra	de in	this	State	, -		13
Stations   Stations	Over, $-12$ .	Under	,1,	•	-	_	_	-	-	_		13
Number of stations on whole line,   5   5   5	174, session	laws 18	383?					1	3		Yes.	
Same in Michigan,					S	Itation	<b>s.</b>					
Number of persons regularly employed on all roads operated by company, including officials			n wh	ole l	ine, -	-	-	-	-	-		<b>5</b> 5
by company, including officials,					E	Employ	jés.					
Same in Michigan,							n all r	oads	opera	ted		••
Classify your employés as per following list:   Engineers,	Same in Mich	y, incluc iigan,	ling	offici	ais,	-	-	-	-	-		11
Engineers,		•	és as	per	follo	wing	list:				,	
Firemen, Laborers, Others,  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:  Manistee county,  Road Bed and Track.  Number of track sections in Michigan, Average length of sections,—miles, Average number of men in each section gang,  ROLLING STOCK.  Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  3 \$9,500 00  Number of passenger cars—8-wheel, including official cars, Number of platform cars,  53 16,215 72 Other cars,  1 1,000 00		o-r-sj	0.0 0.0	Pol							. Na	
Sepairs and renewals.   Sepairs and renewals.   Sepairs and renewals.   Sepairs and renewals.   Sepairs and the counties in which sides of your track, in Michigan, and the counties in which needed:   Manistee county,   27     27     Road Bed and Track.     27     Road Bed and Track.     28     28	Firemen,	<del>-</del> -	-	-	-	-	-	-	-	-		2
### REPAIRS AND RENEWALS.    Fencing in Michigan.   99		-	-	-	-	-	-	-	-	-		4
## Fencing in Michigan.  How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:  Manistee county,  Total miles required,  **Road Bed and Track**  Number of track sections in Michigan,  Average length of sections,—miles,  Average number of men in each section gang,  **ROLLING STOCK**  Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  **Total,  **3 \$9,500 00  Number of passenger cars—8-wheel, including official cars,  Number of platform cars,  **1 1,000 00  Number of platform cars,  **1 1,000 00  Number of platform cars,  **1 1,000 00  **Number of platform cars,	Others, -	-	- ,	- 20041	- ma /	- WD D	- FNPW	- 4 T Q	-	-		9
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:  Manistee county,  Total miles required,  Road Bed and Track.  Number of track sections in Michigan,  Average length of sections,—miles,  Average number of men in each section gang,  ROLLING STOCK.  Number of locomotives of 20 to 30 tons weight, exclusive of tender,  Total,  3 \$9,500 00  Number of passenger cars—8-wheel, including official cars,  Number of platform cars,  53 16,215 72  Other cars,  1 1,000 00  Number of platform cars,  1 3,500 00				) LI L A.				alo.				
Give the number of miles required to complete fence both sides of your track, in Michigan, and the counties in which needed:  Manistee county, 27  Total miles required, 27  Road Bed and Track.  Number of track sections in Michigan, - 18  Average length of sections,—miles, - 18  Average number of men in each section gang, - 4  ROLLING STOCK.  Number of locomotives of 20 to 30 tons weight, exclusive of tender, 3 \$9,500 00  Total, 3 \$9,500 00  Number of passenger cars—8-wheel, including official cars, 1,000 00  Number of platform cars, 53 16,215 72  Other cars, 14 3,500 00												
Manistee county,       27         Total miles required,       27         Road Bed and Track.         Number of track sections in Michigan,       1         Average length of sections,—miles,       18         Average number of men in each section gang,       4         ROLLING STOCK.         Number of locomotives of 20 to 30 tons weight, exclusive of tender,       3       \$9,500 00         Total,       3       \$9,500 00         Number of passenger cars—8-wheel, including official cars,       1       1,000 00         Number of platform cars,       53       16,215 72         Other cars,       14       3,500 00					cing	in M		n.				•
Road Bed and Track    Number of track sections in Michigan,	Give the num sides of you	ber of m	iles	ig ha requ	cing ve y	in Ma	ichiga compl	ete f				9
Road Bed and Track	Give the num sides of you needed:	ber of m ir track,	iles	ig ha requ	cing ve y	in Ma	ichiga compl	ete f				9 27
Average length of sections,—miles, 4  Average number of men in each section gang, 4  ROLLING STOCK.  Number of locomotives of 20 to 30 tons weight, exclusive of tender, - 3 \$9,500 00  Total, 3 \$9,500 00  Number of passenger cars—8-wheel, including official cars, 1 1,000 00  Number of platform cars, 53 16,215 72  Other cars, 14 3,500 00	Give the num sides of you needed: Manistee cour	ber of m ir track, aty,	niles in N -	ng ha requ Iichi	cing ve y	in Ma	ichiga compl	ete f				_
ROLLING STOCK.   Number of locomotives of 20 to 30 tons   weight, exclusive of tender,   3   \$9,500 00	Give the num sides of you needed: Manistee cour	ber of m ir track, aty,	niles in N -	ng ha requ Iichi -	ve y ired gan,	in Ma ou? to co	complethe co	ete fountie				27
Number of locomotives of 20 to 30 tons weight, exclusive of tender,       3       \$9,500 00         Total,       3       \$9,500 00         Number of passenger cars—8-wheel, including official cars,       1       1,000 00         Number of platform cars,       53       16,215 72         Other cars,       14       3,500 00	Give the num sides of you needed: Manistee cour Total mil Number of tre	ber of m ir track, aty, es requ ack sect	iles in I - ired,	ng ha requ lichi Ro in M	ve youred gan,	in Ma	complethe co	ete fountie				27
weight, exclusive of tender,       3       \$9,500 00         Total,       3       \$9,500 00         Number of passenger cars—8-wheel, including official cars,       1       1,000 00         Number of platform cars,       53       16,215 72         Other cars,       14       3,500 00	Give the num sides of you needed: Manistee cour Total mil Number of tra Average length	ber of m ir track, aty, es requ ack sect th of sec	iles in I ired, ions	required in Mes,—n	ve youred gan,	in Ma	complethe co	ete fountie				27 27
Number of passenger cars—8-wheel, including official cars,       1       1,000 00         Number of platform cars,       53       16,215 72         Other cars,       14       3,500 00	Give the num sides of you needed: Manistee cour Total mil Number of tra Average length	ber of m ir track, aty, es requ ack sect th of sec	iles in I ired, ions	Rocalin M	ve youred gan, ad Belichiniles,	in Ma	complete co	ete fountie				27 27 1 18
Number of passenger cars—8-wheel, including official cars,       1       1,000 00         Number of platform cars,       53       16,215 72         Other cars,       14       3,500 00	Give the num sides of you needed: Manistee cour Total mil Number of tra Average lengt Average num Number of 1	ber of m ir track, nty, es requ ack sect th of sec ber of m	in I ired, ions etion ien i	Rocal Rocal	ve youred gan, ad Beichiniles, h se	in Me ou? to c and f  ed and gan, ction	complete co	ete fountie		whiel - - -	<b>h</b> -	27 27 1 18 4
Number of platform cars,	Give the num sides of you needed: Manistee cour Total mil Number of tra Average lengt Average num Number of l weight, excl	ber of m ir track, nty, es requ ack sect th of sec ber of m	in I ired, ions etion ien i	Rocal Rocal	ve youred gan, ad Beichiniles, h se	in Me ou? to c and f  ed and gan, ction	complete co	ete fountie		- - - -	\$9,50	27 27 1 18 4
Other cars,	Give the num sides of you needed: Manistee cour Total mil Number of tra Average lengt Average num  Number of l weight, excl Total, Number of p	ber of mer track, aty, es requests sect the of sect the of sect the of sect the of sect the of sect the of sect the of sect the of sect the of sect the of sect the of sect the of sect the of sect the of sect the of sect the of section of the occurrence of the occu	iles in I	Rocal Rocal	ve ye ired gan,  ad Beichiniles, h see	in Moon? to condition and from gan, ction ING S'	complete co	ete funtie		3	\$9,50	27 27 18 4 0 00 0 00
Total, 71 \$30,215 72	Give the num sides of you needed: Manistee cour Total mil Number of tra Average lengt Average num  Number of l weight, excl Total, Number of p official cars.	ber of mer track, aty, es requests section of section o	in I	Rocal Rocal	ve ye ired gan,  ad Beichiniles, h see	in Moon? to condition and from gan, ction ING S'	complete co	ete funtie		3 - 3 1	\$9,50 \$9,50	27 27 18 4 0 00 0 00 0 00
	Give the num sides of you needed: Manistee cour Total mil Number of tra Average lengt Average num  Number of l weight, excl Total, Number of p official cars, Number of pl	ber of mer track, aty, es requests section of section o	in I	Rocal Rocal	ve ye ired gan,  ad Beichiniles, h see	in Moon? to condition and from gan, ction ING S'	complete co	ete funtie		**************************************	\$9,50 \$9,50 \$9,50	27 27 18 4 0 00 0 00 0 00 5 72

.

Number of locomotives equipped with power brakes,

1

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885? No.

What pattern or patterns have you adopted for use? Link and pin.

# MILEAGE, TRAFFIC, ETC.

### Train Mileage.

Miles run by freight trains during the year,

4,000

Total mileage of trains earning revenue,

4,000

# ADDITIONAL QUESTIONS.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Six miles; poles belong to railroad company, wires to Western Union.

STATE OF MICHIGAN, COUNTY OF MANISTEE, Ss.

E. S. Hopkins, Treasurer, of the Bear Lake & Eastern Railroad Company, being duly sworn, deposes and says that she has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of her knowledge and belief.

[L. S. OF R. R.] Signed, E. S. HOPKINS.
Subscribed and sworn to before me this 18th day of April, A. D. 1890.

JOHN E. BOWEN, Notary Public.

### ANNUAL REPORT

OF THE

# LAKE COUNTY RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed June 4, 1890.]

# OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

Auditor, JOHN S. WOODRUFF, Ludington, Mich. General Manager, THOMAS R. LYON, Ludington, Mich. General Superintendent EDWIN GOODRICH, Branch, Mich. Chief Engineer, CHAS. A. WALLINGER, Branch, Mich.

### DIRECTORS.

THOMAS R. LYON, Ludington, Mich. JOHN B. LYON, Chicago, Ill. JOHN S. WOODBUFF, Ludington, Mich. LUCIUS K. BAKER, Ludington, Mich. M. A. NEILAN, San Francisco, Cal.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed,—Executed July 12, 1880. Filed September 8, 1880.

Number of stockholders at date of last election,—Seven original subscribers.

Number of stockholders in Michigan at same date, - - - - 6

Amount of full paid stock held in Michigan at same date,—No certificate of Stock issued.

Date of annual meeting of stockholders,—September 1.

General offices of the company are located at Ludington, Mich.

### GENERAL EXHIBIT.

Total income,	-	-	DEBIT.	CREDIT. \$20,061 08
Total expenses, including taxes,	-	-	<b>\$</b> 19,161 08	
Net income,	-	-		<b>\$</b> 900 00

01	_
ĸ	
421	

610	MICHIGAN RAILROAD RETURNS.							
Balance for the year Balance (profit and Balance forward to	ar, l loss) last year, o next year,	- -	- -	*11,000	-	CREDAT. \$900 OO 10,100 OO		
	•			\$11,000	00	<b>\$</b> 11,000 <b>00</b>		

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of associ	eiation,	-	<b>\$</b> 300,000 <b>00</b>
Par value of shares, \$100 00 Amount paid in common,	\$60,000	00	
Total amount paid in as per books of the compan Paid in per mile of road owned by company,— 11 miles,	y, <sub>-</sub> \$5,454	- 54	<b>\$</b> 60,000 <b>00</b>

# ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Funded debt,	-	-	-	-	-	-	-	-	-	None.

### UNFUNDED DEBT.

For What Incurred.	Is the Same to be Funded or How Liquidated.	Amount.
For equipment		
For renewals.		
For current balances		\$900 00
Total unfunded debt		\$900 00

### RECAPITULATION.

Total unfunded debt,		-	-	-	-	-	<b>\$900 00</b>
Total debt liabilities,	-	-	-	-	-	-	<b>\$900 00</b>
Amount of debt liabilities per Total amount of stock and de Stock and debt per mile of re	ebt,	_	_	-11 m -	iles, - -	- - -	81 81 60,900 00 5,536.35

### GENERAL BALANCE SHEET.-DR.

	Construction ac		t,	-	-	-	-	-	-	<b>\$</b> 70,900 00
Cash items: Cash,	-	-	-	-	-	-		-	-	1,000 00
Total										<b>971 900 00</b>

^1	•
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1009.j	אנד	'AE'	COUN.	II V	WITIM	JAI	<i>J</i> 66.		OII
	GEN	ERA	L BAI	ANC	E SHI	ce:	Г.—Св.		
Capital stock,	-	_	-	-	-	_	-	-	<b>\$60,000 00</b>
Unfunded debt:									
Due employés,		-	-	_	_	-	•	_	900 00
Profit and loss or i	income	acco	ounts,		-	-	-	-	11,000 00
Total, _	-	-	-	-	-	-	-	-	<b>\$71,900 00</b>
	COST	OF	ROAD	ANI	EQU	IPI	MENT.		
Total Cost for Constr					•			es Bı	uilt by Company.
Total expended for	r const	rneti	on an	d ear	inme	nt.			<b>\$70,900 00</b>
Average cost per	mile c	of ro	ad, n	ot ir	cludi	ng.	sidings	,_	4.0,000 00
11 miles,	_	-	_	_	-	-	-	_	6,445 54
Proportion of cost	for M	ichig	an,—	ll m	iles,	-	-	-	70,900 00
		ANA	Lysis	OF I	EARN]	ING	s.		
		F	REIGH	r ea	RNING	8.			
Main line and bran	nches:								
Local traffic,	-	-	-	<i>-</i> '	-	;	<b>\$20,061</b>	<b>08</b>	
Total traffic,	_	_	-	-	-		\$20,061	08	
Total freight	depart	ment	earni	ngs,	-	-	-	_	<b>\$20,061</b> 08
Proportion for M	[ichige	an,	_	_	_	:	\$20,061	08	
Per mile of road	Ι,	_	-	-	-		1,823	<b>73</b>	
Total transportation	n earr	nings	,	_	-	_	-	-	\$20,061 08
Transportation ear	nings	per 1	mile o	f roa	d,	_	<b>\$1</b> ,823	73	
Total earnings	from	oper	ation	of ro	ad,	_	_	_	\$20,061 08
<b></b>	•1		,				01 000	70	
Total earnings per					-	-	<b>\$1</b> ,823	73	
Proportion of taxa	ble ear	rning	s for	Mic	higan,		-	-	<b>\$20,061</b> 08
Total taxable ea: Michigan,	rnings	per	mile	OI	road	ın	@1 202	72	
•	-	-	-	-	-	-	<b>\$</b> 1,823	10	000.001.00
Total income	from a	II BO	urces,		-	-	-	-	<b>\$20,061 08</b>
Proportion of inco	me for	Mic	higan	,	-	-	-	-	20,061 08
		ANAI	Lysis	OF I	EXPE	NSE	es.		
C	LASS 1	-Mai	ntenar	ice of	Way a	ınd	Building	78.	
Repairs of road we	av and	trac	k.	_	_	_	_	_	)
Renewals of rails,	-	-	<b>-</b> ,	-	_	-	-	-	
Renewals of ties.	_		<u>-</u>	-	-		<b>-</b> _	-	\$2,600 00
Repairs of bridges	, inclu	ding	culve	rts a	nd cat	tle	guarda,	-	42,000 00
Repairs of fences,	road c	rossi	ngs, a	nd si	gns,	-	-	-	
Repairs of building	gs,	-	-	-	-	-	-	-	,
Total,	_	_	-	-	_	_	-	-	<b>\$2,600 00</b>

Ch 9 14	r	1	· · · · · · · · · · · · · · · · · · ·	D			<b>L</b>	•
CLASS 2.—M				Power	r ana C	u <b>rs.</b>	`	
Repairs of locomotives, Repairs of passenger cars, Repairs of freight cars,	-	-	-	-	-	-	eo 009	40
Density of facility		-	-	-	-	~	<b>\$2,093</b>	40
Repairs of freight cars,	-	-	-	-	-	-	j	
Total,	. <u>-</u>	_	_/	_	-	_	\$2,093	48
Ct. ASS	3.—Cond	uctina	Trans	morta	tion			
	0. 00.00	weeting	27010	sporta	····		_	
Fuel for locomotives,	-	-	-	-	-	-	)	
Water supply,	-	-	-	-	-	-	1	
Water supply, Oil and waste, Locomotive service, Passenger train service,	-	-	-	-	-	-	1	
Locomotive service,	_	- '	-	-	-	-		
Passenger train service,	-	-	-	-	-	-		
Passenger train supplies,	-	-	-	-	-	-	1	
Mileage of passenger cars	, -	-	-	-	-	-	l	
Freight train service,	-	-	-	-	-	-	<b>\$11,253</b>	29
Freight train supplies,	-	-	-	-	-	-	<b>V</b> 22,200	
Passenger train supplies, Mileage of passenger cars Freight train service, Freight train supplies, Mileage of freight cars,		- ,	-	、	-	-		
Telegraph expenses (mail	atenance	ana	operat	ing),	-	-		
Damage and loss of freigh	nt and b	agga	ge,	-	-	-	1 -	
Damages to property and	cattle,	-	-	-	-	-		
Personal injuries, Agents and station service	-	-	-	-	-	-		
Agents and station service	θ, _	-		-	-	-		
Station supplies,	-	-	-	-	-	-	1	
Total,	_	_	-	_	_	_	<b>\$</b> 11,253	29
•	Class 4.—	Gener	al Exp	enses.			·	
			-			_		
Salaries of the general of	ncers or	tne co	ompar	ıy,	-	-	}	
Salaries of clerks in gener				-	-	-	1	
Law expenses,			-	-	-	-	<u> </u>	
Insurance,	-	-	-	-	-	-	\$3,214	31
Insurance, Stationery and printing, Outside agencies and adve	,	-	-	-	-	-		
Outside agencies and adve	ertising,	-	-	-	-	-		
Contingencies,	-	-	-	-	-	-		
Taxes,	-	-	-	-	-		)	
Total,	-	-	-	-	-	-	<b>\$</b> 3,214	31
RECA	PITULA:	TION	OF E	XPEN	SES.			
					Per Cen	٠		
					Expen			
Maintenance of way and b	ouildings	3.		_	13.	56	<b>\$2,600</b>	00
Maintenance of motive po	wer and	cars.	_	_	10.	81	2,093	48
Conducting transportation	1	_ ′		_	58.		11,253	29
General expenses, including	ng taxes,	, -	-	-	16.		3,214	
Total operating expe	enses, an	d tax	ces,	-	100.	00	\$19,161	08
Operating expenses and to Proportion of operating ex	axes per xpenses :	mile for M	of ro lichig	ad, an,				
main line,	-	-	-	-	1,741	91		
Total, proportion of e	xpenses	for M	lichig	an,	-	-	1,741	91

Percentage of expenses to earnings,—95%. •
Net earnings per mile of road \$81 82

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From point in Elk township, Lake county, to Pere Marquette river, Aug. 20, 1880.

20, 1880.										
				MAIN	LI	NE.				
In Michigan,	from I	Elk to	Pere	Mar	quet	te riv	er,		les. 100ths. 11.00	Miles. 100ths.
Total length c	omple	eted,	-		-	-	-	-		11.00
Total length of Total length of in Michigan	f road	belon belon	ging ging	to th to th	is c is c	ompa compa	ny, my	-	· 11.00	11,00
Gauge of track	τ, <b>4 f</b> e	et 8 <del>1</del> i	inche	s.				Tota	l Miles.	In Michigan.
Total mile	s ope	rated 1	by th	e cor	npai	ay,	-		11.00	11.00
	_	nber of	•		_	•		ichiga	n.	•
Wooden bridg									h, <b>f</b> eet,	. 650
Total,		. • _	_	_	2;	-	_	_	_	650
·		Cross	sings-	-Rail:	road	and E	Iighwa	v.		
Flint & Per Are your frogs 174, session	and .	guard	rails	blocl	red	as re	quired			Yes.
Number of sta Same in Mich			ole li: -			-	<u>-</u> -	-	-	2 2
Number of per	<b></b>	mooralo:	-l or				manda		matad.	
by company, Same in Mich	, inclu	iding o	officia	ls,	- - -	- - -		- - -	- -	23 23
Classify your	e <b>mp</b> lo	yés as	per f	ollov	ving	list:				Number.
Brakemen, Engineers, Firemen, Laborers, Shopmen, Others,	-				- - - -	- - - -	-	-	- - - - -	6 3 3 9 1 1
						l Trac	k.			_
Number of tra Average lengt Average numb	h of s	ections	s,—m	iles,	-	- gang	- - 5,	- -	- - -	$\begin{array}{c} 1 \\ 11 \\ 6 \end{array}$

### ROLLING STOCK.

								Nun	aber.	Pre Estimate		lue.
Number of lo exclusive o			of 20	to 30	0 toms -	weig -	ght, -		3	<b>\$</b> 12,0	000	00
Total,	-	-	-	_	-	-	-	•	3	\$12,0	000	00
Logging care	3,	-	-	-	-	-	٠.		<b>40</b>	4,0	000	00
Total,	•	-	-	-	-	-	-	-	43	\$16,0	000	00
		٠	MILI	CAGE	, TRA	FFIC	, etc	l <b>.</b>				
		Freig	jht Foi	ward	ed at I	<b>Li</b> chiq	jan St	ations	) <b>.</b>			
Lumber and	fores	t proc	lucts,	-	-	-	-			. 8	02,4	ons. 141
Total fo	rward	led,	-	-	-	-	-			. 8	02,4	141
	To	nnage	of Ar	ticles	Trans	porte	i.—En	tire R	oad.			
Lumber and	fores	t prod	lucts,		-	-	-	-	80,2		Per C 100	ent. .00
Total to	ns car	ried,		-	-	-	-	-	80,2	44	100	.00

STATE OF MICHIGAN, SS.

John S. Woodruff, and Lucius K. Baker, of the Lake County Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

JNO. S. WOODRUFF. L. K. BAKER.

Subscribed and sworn to before me this 31st day of May A. D. 1890.

WILLIAM FOY, Notary Public.

### ANNUAL REPORT

#### OF THE

# HECLA & TORCH LAKE RAILROAD COMPANY,

For the Year Ending December 31, 1889.

[Filed June 17, 1890.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ALEX. AGASSIZ, Boston, Mass.

Secretary and Treasurer, JOHN HEEBNER, Calumet, Mich.

Superintendent, W. A. CHILDS, Calumet, Mich.

### DIRECTORS.

ALEX. AGASSIZ, Cambridge. Mass. Q. A. Shaw, W. Roxbury, Mass. S. B. Whitting, Cambridge, Mass. Jas. N. Wright, Calumet, Mich. John Duncan, Calumet, Mich.

Terms expire June, 1890.

### STOCKHOLDERS, STOCK, AND GENERAL OFFICES.

When chartered or articles of association filed,—1867.					
Number of stockholders at date of last election,	-	-	-	-	6
Fumber of stockholders in Michigan at same date,	-	-	-	-	2
Amount of full paid stock held in Michigan at same date,	-	-	-	-	<b>\$200</b>
Date of annual meeting of stockholders,—Third Wednesda	y in J	une.			
Fiscal year of company ends,—April 30.					
General offices of the company are located at Calumet, Mic	h.				

### REMARKS.

The road is operated and wholly owned by the Calumet & Heela Mining Company, which pays any deficit that may occur for the privilege of having its ore transported free.

### GENERAL EXHIBIT

GENERAL EXHIBIT.	•
Total income,	CREDIT. \$97,454 56
Total expenses, including taxes, \$97,454 5	6
ANALYSIS OF CAPITAL STOCK.	
Amount authorized by charter or articles of association, Par value of shares, No. of shares issued, Amount paid in on common,  \$100,000 0	·
Total amount paid in as per books of the company,	100,000 00
Paid in per mile of road owned by company,  —7.50 miles,  \$13,333 3	3
ANALYSIS OF DEBT ACCOUNTS.	
FUNDED DEBT.	
Unfunded debt,	. None.
UNFUNDED DEBT.	None.
For construction,	\$407,249 60
RECAPITULATION.	- ,
Total unfunded debt,	<b>\$407,249 60</b>
Total debt liabilities,	\$407,249 60
Amount of debt liabilities per mile of road,—7.50	
miles,	54,299 95
Total amount of stock and debt, Stock and debt per mile of road,—7.50 miles,	507,249 60 67,633 28
GENERAL BALANCE SHEET.—Dr.	
Construction and equipment account,	<b>\$</b> 507, <b>249</b> 60
Total,	<b>\$</b> 507,249 60
GENERAL BALANCE SHEET.—Cr.	
Capital stock,	<b>\$100,000 00</b>
Vouchers and accounts,	407,249 60
Total,	<b>\$</b> 507,249 60
COST OF ROAD AND EQUIPMENT.	
Total Cost for Construction and Equipment of Road, and Branches	Built by Company.
Total expended for equipment, Average cost per mile of road not including sidings,—7.5	\$507,249 60
miles, Proportion of cost for Michigan,	67,633 28 507,249 60
	•

# ANALYSIS OF EARNINGS.

# FREIGHT EARNINGS.

Main line an Local traffi		nches -	:	-	-		<b>\$</b> 9	7,454	56		
Total fre	eight	depar	tment	earn	ings,	-	-	-	-	<b>\$</b> 97, <b>4</b> 54	<b>56</b>
Proportion Per train r Per mile o	nile,	_ `	gan, - -	-	- - -	-		7, <b>4</b> 54 2 2,993	00		
Total tra	nsbo	rtatio	n earı	nings,	,	-	-	-	-	\$97,454	56
Transportation Transportation	on ea	rnings rnings	per per	mile train	of ros mile,	ad, -	_ <b>\$1</b>	2,993 2			
Total ea	rning	s fron	a ope	ration	of r	oad,	-	_	-	\$97,454	56
Total earning	gs per	r mile r train	of ro mile	ad,—	-7.50 -	miles,	- <b>\$1</b>	2,993 2	94 00		
Proportion of Total taxabl Michigan,-	e ear	nings	per	mile	Mic of	road i	n	- 2,993	94	\$97,454	56
Total inc	come	from	all so	urces	,	_	-	-	-	\$97,454	<b>56</b>
Proportion o	f inc	ome fo	or Mi	chiga	n,	- ,	_	-	-	97,454	56
			ANAI	Lysis	OF	EXPEN	SES.				
	C	LASS 1	.—Mai	intena	nce of	Way o	ınd B	uildin	gs.		
Repairs of re Renewals of Repairs of fe	ties,	_	_	_	- and si	- gns,	-	<u>-</u> -	<u>.</u>	\$13,151 · 500 290	00
Total,	-	-	-	_	-	_	_	-	_	<b>\$</b> 13,942	32
		CLAS	ss 3.—	Cond	ucting	Trans	porta	tion.			
Fuel for loco Freight train Freight train	serv	es, ice.	-	-	-	- -	-	-	-	\$17,758 52,118 11,110	50
Total,	_	-	_	-	_	_	-	_	_	\$80,987	29
			CLAS	s <b>4</b>	Gener	ul Expe	nses.				
Taxes,	-	-	-	-	-	-	-	-	-	<b>\$</b> 2,524	95
Total,	-	-	-	-	-	-	-	-	-	\$2,524	95

### RECAPITULATION OF EXPENSES.

Maintenance of way and buildings, Maintenance of motive power and cars, Conducting transportation, General expenses, including taxes,	- ·	 	-}	\$13,942 80,987 2,524	29
Total operating expenses and taxes,	-	-	-	\$97,454	<b>56</b>
Operating expenses and taxes per mile of Operating expenses and taxes per train miles	road, le run	\$12,993	94		
for trains earning revenue,—48,465 m Proportion of operating expenses and tax	iles,	<b>2</b>	00		
for Michigan, main line,	-	97,454	<b>56</b>	•	
Total proportion of expenses for Michiga Percentage of expenses to earnings, 100%	n, %.		-	<b>\$</b> 97 <b>,454</b>	50

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Calumet to Lake Linden, October, 1868.

### MAIN LINE.

EAIN DINE.		
	Miles. 100ths.	Miles. 100ths.
In Michigan, from Calumet to Lake Linden,	6.00	
Total length completed,		6.00
Total length of branches owned by company, Total length of branches owned by company in		1.50
Michigan,	1.50	
Total length of road belonging to this company,		7.50
Total length of road belonging to this company in Michigan,	7.50	
Aggregate length of tracks in Michigan belonging to this company computed as single track,		7.50
Gauge of track, 4 feet, 1 inch.	Total Miles.	In Michigan.
Total miles operated by the company,	7.50	7.50
Number of Bridges and Trestles in Michi	gan.	
Wooden trestles, number of, 5; aggregate length	h, feet,	1,500
Total,		1,500
Crossings—Railroad and Highway.		

What railroads cross your road at grade in this State and at what locality?

Mineral Range railroad at Calumet.

Hancock & Calumet railroad at Calumet.

1889.]	HECLA	& T	оксн	LAK	E RA	ILRO	AD (	œ.	619
Number of cr Number of cro which there	esings of	high	ways	at gr	rade ade in	in this	is St State	ate, e at	7 2
	B		•	ations	- s.	-	-	-	_
Number of sta	tions on w	hole	line,	-	-	-	-	-	2
Same in Michi	ıgan,	-	-	-	-	-	-		2
			En	nployé	8.				
Number of per	sons regul	larly e	emplo	yed o	n all r	oads	opera	ted	
by company	, including	g offic	cials,	-	-	-	٠.	-	136
Same in Mich		-		-	<u>-</u>	-	-	-	136
Classify your	employes a	as per	r follo	wing	list:				N1
Brakemen,									Number. 12
Conductors,	· -	-	-	-	-	-		-	4
Engineers,	-	-	- •	-	-	-	-	-	6
	- -	-			-	-	-	-	6
			-		-	-	-	-	82
Shopmen,	<u> </u>	-	_	_	_	_	_	_	10
Yardmen.		_	_	_	_	_	_	_	10
Others,		-	-	_	-	-	-	_	6
		משם	AIRS A	MTD D	TO NATIONAL	ATO			
			encing		ıcnıga	n.			
How many mi	les of fenc	cing l	nave y	ou?	-	-	-	-	15
		R	oad Be	d and	l Trac	k.			-
Number of tre	ack section	ns in	Michi	gan,	_	-	_	-	3
Average lengt	h of section	ons,	-miles	,	-	-	_	_	2
Average numb	er of men	in e	sch se	ction	gang,		-	-	6
Number of ne	w ties put	in w	hole li	ne du	iring	the ye	ear,	-	2,000
		I	ROLLI	NG 8	TOCK				
							Numt	ver.	Present Estimated Value.
Number of le	ocomotive	s of	more	than	30 to	ng		~	
weight, excl				VIIGI	. 00 00			8	<b>\$</b> 76,000 00
Number of lo	comotives	of 20	Ö to 30	) tons	weig	ht.		_	•,
exclusive of		_	_	-	-	_		1	8,000 00
							-		
Total,		-	-	-	-	-		9	<b>\$84,000 00</b>
Number of p	assenger c	ars-	8 whe	el. ir	cludi	nø			
official cars			_	-	_	-6		1	<b>500 00</b>
Number of bo		cars,	_	_	_	_		4	1,000 00
Number of plant		8,	-	-	-	-		63	15,000 00
Number of ore Number of cor			-	-	-	-		<b>24</b> 8	60,000 00
		way c	ars,	-	- '	-		3	700 00
Other cars,		-	-	-		-		4	1,000 00
Total,		-	-	-	-	-	-	332	<b>\$</b> 162,200 00

Number of locomotives equipped brakes,  Number of passenger-train care power brakes,  Number of freight cars equipperakes,  Are your freight cars being equipped act No. 147, Session Laws couplers.  What pattern or patterns have couple after deadwoods meet unmaking couplings.	ped wit oped wit of 1885 we you of no de	ped with h power th autom ? No.	No No atic cou Cars d for brake	have alway	s safety ls; cars
	rain Mil	•	_ •.		
Miles run by freight trains duri		. •			48,465
·	•	•	-	-	
Total mileage of trains earn	_		-	-	48,465
F	reight Tr	<i>rajjic.</i> Numl	bers		Bate.
Number of tons of local freight	carried,	and Quar	atities.	Miles. Dolla	ars. Cents.
Total tons of freight carried	·1,	921,9	000		
Total mileage of local freight,			-	48,465	
Total freight mileage, or to	ns carri	ed one n	nile, (	59,142 50	
Freight Forwa	rded at I	Michigan	Station	g.	
Grain,					Tons. 300
	-		-		000
Lumber and forest products,	-				30,000
Coal,		. <u>-</u>	_		30,000 33,000
Coal, Plaster, lime and cement,	- 	- 	-		33,000 600
Coal, Plaster, lime and cement, Other iron and castings,	- ·	-  	-		33,000 600 1,000
Coal, Plaster, lime and cement, Other iron and castings, Ores,		- - - - -	- - - -		33,000 600 1,000 845,000
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand,	- - - 	  	- - - -		33,000 600 1,000 845,000 3,000
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand, Merchandise and other articles	not enu		above,		33,000 600 1,000 845,000 3,000 3,000
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand,	not enu	merated	above,		33,000 600 1,000 845,000 3,000
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand, Merchandise and other articles		- <u>-</u>	-	-  Road.	33,000 600 1,000 845,000 3,000 3,000 915,900
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand, Merchandise and other articles of Total tons carried, Tonnage of Artic		- <u>-</u>	-	 Road. Tons.	33,000 600 1,000 845,000 3,000 3,000
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand, Merchandise and other articles a Total tons carried, Tonnage of Artic Grain,		- <u>-</u>	-	Road. Tons.	33,000 600 1,000 845,000 3,000 3,000 915,900
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand, Merchandise and other articles and Total tons carried,  Tonnage of Artic  Grain, Lumber and forest products,		- <u>-</u>	-	Road. Tons. 300 30,000	33,000 600 1,000 845,000 3,000 3,000 915,900
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand, Merchandise and other articles and Total tons carried,  Tonnage of Artic  Grain, Lumber and forest products,		<b>-</b>	-	Fons. 300 30,000 33,000	33,000 600 1,000 845,000 3,000 3,000 915,900
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand, Merchandise and other articles in Total tons carried, Tonnage of Artic  Grain, Lumber and forest products, Coal, Plaster, lime and cement,		<b>-</b>	-	Fons. 300 30,000 33,000 600	33,000 600 1,000 845,000 3,000 3,000 915,900
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand, Merchandise and other articles in Total tons carried, Tonnage of Artic  Grain, Lumber and forest products, Coal, Plaster, lime and cement, Iron and castings, Ores (copper rock),		<b>-</b>	-	Fons. 300 30,000 33,000	33,000 600 1,000 845,000 3,000 3,000 915,900
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand, Merchandise and other articles in Total tons carried, Tonnage of Artic  Grain, Lumber and forest products, Coal, Plaster, lime and cement, Iron and castings, Ores (copper rock), Stone, brick and sand,	les Trans	 sported - - - - -	Entire	Fons. 300 30,000 33,000 600 1,000 845,000 3,000	33,000 600 1,000 845,000 3,000 3,000 915,900
Coal, Plaster, lime and cement, Other iron and castings, Ores, Stone, brick and sand, Merchandise and other articles in Total tons carried, Tonnage of Artic  Grain, Lumber and forest products, Coal, Plaster, lime and cement, Iron and castings, Ores (copper rock),	les Trans	 sported - - - - -	Entire	Fons. 300 30,000 33,000 600 1,000 845,000 3,000	33,000 600 1,000 845,000 3,000 3,000 915,900

# REPORT OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1889.

# KILLED.

December 10, Annie Kohmeir, grade crossing near Torch Lake. Apparent absent mindedness of 15 years old girl who was attempting to cross track ahead of moving train.

Injured,		INJURED	• 	-	-	None.		
TABULAR STA	ATEMEN'	r of ac	CIDENTS	IN MIC	HIGAN,			
Cause of Accident.		Killed.		Injured,				
	Passengers.	Employés.	Others.	Passengers.	Employés,	Others.		
Collisions Coupling cars. Derailments Falling from trains								
Frogs. Getting on and off trains Highway crossings. Miscellaneous. Overhead obstructions. Trespassers on trains.			1					
Trespassers on tracks			1					
Number of persons killed Number of persons inju Number of casualties pu Number resulting from misconduct, Persons killed or injure Trespassers and tramps Suicides,	red durii irely acci n lack o d while i	ng the yedental, f caution intoxicate	ear, n, carele	- ssness, c	- - or - - -			
	•	TION OF						
	plo <b>yés.</b>		A AIOMIO	Killed.	Injured.	Total.		
Baggagemen Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Not classified above								

STATE OF MICHIGAN, COUNTY OF HOUGHTON, Ss.

John Heebner, Secretary of the Hecla & Torch Lake Railroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1889, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, JOHN HEEBNER. Subscribed and sworn to before me this 10th day of June, A. D. 1890.

L. W. KILLMAR, Notary Public.

# TABLES

ACCOMPANYING

THE EIGHTEENTH ANNUAL REPORT

OF THE

# COMMISSIONER OF RAILROADS.

MICHIGAN,--1890.

COMPILED BY

WYLLYS G. RANSOM.

DEPUTY RAILEOAD COMMISSIONER.

# TABLES

# ACCOMPANYING THE EIGHTEENTH ANNUAL REPORT OF THE COMMISSIONER OF RAILROADS.

# STATE OF MICHIGAN, 1890.

- 1. General Exhibit.—Revenue and Disbursements.
- 2. STATEMENT OF BALANCES.
- 3. CAPITAL STOCK.
- 4. Indebtedness.
- 5. Cost.
- 6. TRACK MILEAGE.
- 7. TRAFFIC EARNINGS.
- 8. Gross Incomp.
- 9. Expenses.
- 10. Analysis of Earnings and Expenses.

- 11. TRAIN MILEAGE AND TRAFFIC.
- 12. TONNAGE AND COMMODITIES MOVED.
- 13. EQUIPMENT.
- 14. STATIONS AND EMPLOYES.
- 15. PERMANENT WAY.
- 16. TAXATION.
- 17. ACCIDENTS.
- Comparative Summary from Returns of 1888 and 1889.
- Comparative Summary of Returns from 1885 to 1889 Inclusive.

79

### 1.—GENERAL EXHIBIT.—REVENUE AND DISBURSEMENTS.

		Control Description	Total Operating	Net Result from
Line No.	Railroads.	Total Revenue from Operation.	Expenses, Including Taxes,	Surplus,
1	Battle Creek & Sturgis	ь \$9,415 28	\$8,208 28	\$1,207 0
2 5 6	Battle Creek & Sturgis Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk Chicago & Hamazoo & Saginaw Chicago & Northwestern.	250,029 11 8,782,775 42 84,830 68 26,185,280 82	287,306 70 2,804,668 79 17,148 99 16,807,710 87	12,722 41 928,106 61 17,181 64 9,877,570 45
7 8 9 10 11 12	Chicago & West Michigan Cincinnati, Jackson & Mackinaw. Cin. Jack. & Maok., W. H. Brown, Receiver. Cincinnati, Wabsah & Michigan Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwaukee.	1,874,838 80 528,468 46 94,974 98 584,062 59 487,209 48 1,078,612 71	1,018,465 79 458,004 54 78,024 82 377,613 93 290,791 37 822,982 81	356,367 51 70,458 92 16,950 16 156,448 06 196,418 06 253,629 96
18 14	Detroit, Lansing & Northern	1,181,985 91	1	
15 16 17 18	Detroit, Lensing & Northern. Grand Rapids, Lensing & Detroit. Saginaw & Western Duluth, South Shore & Atlantic. Marquette, Houghton & Ontonagon Marquette & Western.	1,976,850 88	1,161,515 28	814,835 10
19 20		0 000 000 00	1,552,164 83	
19 20 21 22 28 24 25 26	Flint & Pere Marquette.  Manistee. Port Huron & Northwestern. Saginaw & Clare County. Saginaw & Mt. Pleasant Frankfort & Southeastern. Grand Rapids & Indiana. Hancock & Calumet.			
25 26	Grand Rapids & Indiana. Hancock & Calumet.	4 2,495,732 90 184,657 44		825,379 2 56,613 41
27 28 29 30 81 82 83	Lake Shore & Michigan Southern System  Detroit, Hillsdale & Southwestern  Detroit, Monroe & Toledo  Fort Wayne & Jackson  Kalamasoo, Allegan & Grand Rapids  Kalamasoo & White Pigeon.  Northern Central Michigan	19,487,196 74	12,847,451 57	6,689,745 17
84 85 86 87 88	Lowell & Hastings Manistee & Northeastern Manistique Mason & Oceana Michigan Air Line railway	39,599 80 152,640 45	3,976 72 44,103 83 24,897 82 39,218 10 180,574 85	2,516 2 20,288 17 381 70 22,066 10
89 41 42 43 44 45 46 47 48	Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line railroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	18,786,925 16	9,895,158 82	8,891,766 84
49 50 51 52 58	Milwaukee, Lake Shore & Western	3,474,667 29 1,231,091 33 109,775 06	1,954,208 97 838,912 01 61,930 23 1,063,066 75	1 590 483 37
54			11,092 44	40.000
55 56 57 58 59	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	102,068 27 106,984 22 96,813 79	91,831 66 77,029 41 57,958 62	10,236 61 29,954 81 38,855 08
5 <u>ŏ</u>	Toledo, Ann Arbor & North Michigan	1,014,306 98 91,870 24	668,130 69 89,898 96	346,176 29 1,976 28

Sinking funds.
 For four months only.
 Interest on guaranteed stock \$58,350. Interest for six branch roads \$507,845.40.

#### REVENUE AND DISBURSEMENTS.—CONTINUED.

Year's Business,	Payable from Income.									
Deficit.	Interest on the Funded Debt,	Interest on the Floating Debt.	ting Rentals, Etc. Dividends.		Total,					
		7	\$846 05		\$846 05					
	\$65,700 00 659,984 47	\$27,489 57	109,458 24	\$43,800 00	109,500 00 796,877 28					
	5,544,927 12		<b>202,570 00</b>	3,444,504 00	9,192,001 12					
	237,846 60 188,952 20	2,130 78	15,977 58 2,721 45	123,004 00	360,850 60 157,060 51 2,721 45 45,814 45 150,000 00					
	45,224 59 150,000 00 312,000 00	589 86			45,814 45 150,000 00 846,787 47					
	287,112 22	18,907 91 4,987 07	21,429 56 89,675 00		381,774 29					
	519,852 00	132,963 21	22,317 09	196,707 86	871,389 <b>66</b>					
	444,962 28	12,147 82	95,299 01	380,520 00	982,929 06					
•••••		••••••	• • • • • • • • • • • • • • • • • • • •							
	765,925 00 15,000 00	71,052 67 1,308 54	6,000 00		842,977 67 16,308 54					
	8,245,015 00	o 560,995 40		2,473,825 00	6,279,335 40					
• • • • • • • • • • • • • • • • • • • •										
	• • • • • • • • • • • • • • • • • • • •	•••••••	<b></b>							
	••••••									
		31,827 53			31,827 53					
		2,215 89		7,413 76	\$1,827 58 2,215 89 7,418 76 75,483 34					
	75,498 84									
• • • • • • • • • • • • • • • • • • • •	1,080,000 00		1,839,971 06	996,910 20	3,856,881 26					
•										
			• · · · · · · • • · · · · · · · · · · ·							
	671,499 39 281,780 00	6,227 88	86,763 57 22,598 68 184 72	490,000 00	1,248,262 96 310,556 51 184 72					
	962,124 86		84,976 96		1,047,101 72					
\$5,362 01	••••••									
	11,400 00 35,680 00	22,927 87	10,122 94 7,000 00		44,450 81 42,680 00					
			10,122 94 779 42	1	812,874 78 45,191 92					

d Includes Muskegon, Grand Rapids & Indiana and Traverse City Railways.
 e Included with Grand Rapids & Indiana.

#### 1.—REVENUE AND DISBURSEMENTS.—CONTINUED.

	•		Total Operating	Net Result from	
Line No.	Railroads.	Total Revenue from Operation,	Wennenge	Surplus.	
61	Toledo & South Haven		\$14,248 31	\$9,989 67	
62 63 64 65	Traverse City	10,094,875 48 2,013,095 13	7,330,539 64 1,874,484 98 40,546 87	2,764,335 84 638,610 15 87,205 84	
	Total for commercial roads	\$96,085,264 79	\$64,848,672 87	\$31,741,953 99	
	ORE AND FOREST ROADS.				
1 2	Bear Lake & Eastern	\$10,708 61	\$5,962 97	\$4,745 64	
8 4 5	Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Heela & Torch Lake	12,787 32			
6 7 8	Hobart & Manistee River	20,061 08	19,161 08	1,500 00 900 00 63,133 12	
9	Manistee & Luther. North Branch & Sauble River.	12,389 44		3,226 15	
	Total for ore and forest roads	\$337,806 83	\$265,119 11	\$73,708 06	
_	Total for all roads	\$96,428,071 62	\$64,613,791 98	\$31,815,656 99	

#### 2.—GENERAL EXHIBIT.—STATEMENT OF BALANCES.

o.		Balances Dece	mber 31, 1889.
Line No.	RAILROADS.	Nebit,	Credit,
1 2	Battle Creek & Sturgis		\$160 95
8 4 5 6	Battle Creek & Sturgis. Bay City & Battle Creek. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk. Chicago, Kalamazoo & Saginaw. Chicago & Northwestern.		685,5 <b>69 33</b>
7 8 9 10	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Jackson & Mackinaw—W. H. Brown, Receiver Cincinnati, Wabash & Michigan	4,483 09 86,601 59	14,228 71 110,634 21
11 12	Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee	98,107 57	46,418 06
13 14	Detroit, Lansing & Northern. Grand Rapids, Lansing & Detroit.	6,712 40	
15 16 17 18	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit Saginaw & Western Duluth, South Shore & Atlantic Marquette, Houghton & Ontonagon Marquette & Western	56,504 56	
19 20 21	Flint & Pere Marquette.  Manistee Port Huron & Northwestern.	105 57	
22 28 24	Saginaw & Clare County Saginaw & Mt. Pleasant		
25 26	Frankfort & Southeastern Grand Rapids & Indiana. Hancock & Calumet	17,598 39	40,304 87

# REVENUE AND DISBURSEMENTS.—CONTINUED.

Year's Businees,	ı	Payable from Income.								
Deficit.	Interest on the Funded Debt,	Interest on the Floating Debt.	Rentals, Etc. Dividends.		To al.					
	\$12,980 00	\$281 96			\$13,241 96					
	2,138,393 32 580,655 77	151,210 28	\$931,671 15 606,890 93		8,070,064 47 1,338,256 98					
<b>\$5,362</b> 01	\$18,571,090 61	\$1,049,586 08	\$4,166,871 15	\$8,096,184 82	\$81,888,712 11					
	<b>\$484</b> 05	<b>\$746 04</b>			\$1,230 09					
\$1,015 84	•									
\$1,015 84	\$48 <u>4</u> 05	<b>\$748 04</b>			\$1,280 09					
\$6,877 35	\$18,571,574 66	\$1,050,312 07	\$4,166,871 15	\$8,096,184 82	\$31,884,942 20					

## STATEMENT OF BALANCES.—CONTINUED.

ō.	rard to 1890.	Balances For		Taken to According for Tr	ard from 1888.	Balances Forwa
Line No.	Credit,	Debit.	Oredit.	Debit.	Credit,	Debit,
	<b>\$860 95</b>					
į			\$96,777 59	\$181,229 85		
	28,966 18 6,522,289 94				\$11,784 49 5,836,720 61	
	236,488 60	\$14,149 72	6,945 61 169 78	12,179 64	234,026 08 84,461 78	.,
	14,228 71 500,314 96	412,120 10	100 10	12,178 04		
1	75,686 07		98,107 57		389,680 75 29,268 01	
1	57,594 70	•••••			64,807 10	
1		2,814 90	2,838 00		51,851 66	
1	446 92				552 49	·····
2000						
2	97,040 88	204,179 44		10,780 62	56,736 01	175,900 43

## MICHIGAN RAILROAD RETURNS.

# 2.—GENERAL EXHIBIT,—STATEMENT OF BALANCES.—CONTINUED.

	n.u	Balances Dec	ember 31, 1889.
	Railroads.	Debit,	Credit,
,	Lake Shore & Michigan Southern System  Detroit, Hillsdale & Southwestern  Detroit, Monroe & Toledo  Fort Wayne & Jackson  Kalamazoo, Allegan & Grand Rapids  Kalamazoo & White Pigeon  Northern Central Michigan		\$900,409 77
8	Detroit, Hillsdale & Southwestern		
Ď	Fort Wayne & Jackson		
	Kalamazoo, Allegan & Grand Rapids	· · · · · · · · · · · · · · · · · · ·	-
2	Northern Central Michigan		-
	Hortuern Contrat michigan		
4	Lowell & Hastings Manistee & Northeastern Manistique		
5	Manistione	\$29,311 27	18,072 28
i	Mason & Oceana	7,082 08	1
3	Mason & Oceana Michigan Air Line Railway	58,367 24	
,	Michigan Central System Canada Southern Bridge Detroit & Bay City. Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern. Toledo, Canada Southern & Detroit		94 995 59
) i	Canada Southern Bridge		
- 1	Detroit & Bay City		
	Grand River Valley		-
	Jackson, Lansing & Baginaw	• • • • • • • • • • • • • • • • • • • •	- <sub>1</sub>
	Michigan Air Line R. R.		
	Michigan Midland & Canada		
	Saginaw Bay & Northwestern	· · · · · · · · · · · · · · · · · · ·	
١,	Toledo, Canada Southern & Detroit		
,	Milwankee, Lake Shore & Western		272,200 36
	Milwaukee, Lake Shore & Western. Milwaukee & Northern.		Q1 499 Q1
. [	Mineral Range		47,660 11
	Minneapolis, St. Paul & Sault Ste. Marie	458,756 36	
.	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River.	5,362 01	
		l .	
	Pontiac, Oxford & Northern	4 979 AR	10,296 6
	Saginaw Valley & St. Louis	4,373 06 3,824 92	
1	Saginaw & Grand Rapids		
3	Fondac, Oxford & Northern. Saginaw Tuscola & Huron. Saginaw Valley & St. Lonis. Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	43,215 64	_ 33,301 5
1			
!	Toledo & South Haven	3,302 29	
2	Traverse City		305,728 6
	Wisconsin Central	b 397,226 32	. 300,120 0
5	Wabash. Wisconsin Central Detroit, Union R. R. Depot & Station Co		
-			
	Total commercial roads	\$1,367,661 98	\$2,210,044 7
1	ORE AND FOREST BOADS.	·	
ιİ	Bear Lake & Eastern. Buckley & Douglas. Crawford & Manistee River. Grass Lake & Manistee River.		. \$3,515 5
2	Buckley & Douglas	c	
1	Crawford & Manistee River	91 AIK 84	198 1
	Hecla & Torch Lake.	\$1,010 89	
1			
3	Hobart & Manistee River	<b></b>	1,500 0
8	Manietee & Luther		900 0 52,840 9 3,226 1
	Manistee & Luther North Branch & Sauble River.		3,226 1
	Total ore and forest roads.	\$1,015 84	<b>\$62,180</b> 8
-	Total for all roads.	\$1,368,677 27	\$2,272,225 6

<sup>Included with G. R. & I.
First report,
Road abandoned and track taken up.</sup> 

#### STATEMENT OF BALANCES.—CONTINUED.

	vard to 1890.	Balances forw	int other than affic.	Taken to Account other than for Traffic.		Balance Forv
	Credit,	Credit, Debit, Credit, Debit,		Debit. Credit.		Debit.
	\$11,892,752 93		\$382,541 49		\$10,649,801 67	
-						
-						
-						
-			<del>-</del>			
-		• • • • • • • • • • • • • • • • • • •				
-		\$29,311 27				
-	49,224 82				31,152 04	
-	<del></del>				7,082 06	
-			53,867 24	• • • • • • • • • • • • • • • • • • • •		
	6,773,612 59		46,665 66	\$405,478 85	7,097,584 70	
_			20,000 00		.,	
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-		•			•	
-				······································		
•						
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-						
	100 100 11		18 000 00		104.007.00	1
	482,422 11 294,794 09		15,293 98	· · · · · · · · · · · · · · · · · · ·	194,927 82 213,081 28	••••
	184,148 84				136,488 73	
		1,175,567 00		7,478 71		709,886 93
		20,361 78				14,999 77
	10,236 61	ļ		!		
	20,200 02	46,529 15			****************	42,156 09 97,259 08
		46,529 15 100,627 95	456 00			97,259 08
-		<b></b>				
	108,149 47	71,048 87	· · · · · · · · · · · · · · · · · · ·		72,847 96	27,828 23
-	- · · · · · · · · · · · · · · · · · · ·	11,050 01	•••••			21,020 20
		8,668 58			••••	5,366 29
		288,474 02 189,116 92	040 000 00	409,028 58		185,174 07
-		189,110 92	346,288 20			138,178 80
•			••••••			
-						
	\$26,826,668 82	\$2,150,844 66	\$1,044,451 07	\$976,165 25	\$25,161,755 19	\$1,396,099 64
						j
	\$3,526 89				\$11 8 <del>4</del>	• • • • • • • • • • • • • • • • • • • •
	7 000 04				7 104 74	
	7,382 91 4,162 29	• • • • • • • • • • • • • • • • • • • •			7,184 76 5,177 68	
	7,102 29				0,211 00	
		\$15,638 55				\$17,138 55
	11,000 00	•••••		•	10,100 00 110,527 09	<b></b>
	163,368 08 8,226 15	• • • • • • • • • • • • • • • • • • • •	•••••••		110,521 09	• • • • • • • • • • • • • • • • • • •
	0,					
	\$192,666 32	<b>\$15,688</b> 55	••		\$183,000 82	\$17,138 55
-	ļ					
	\$27,019,835 14	\$2,165,983 15	\$1,044,451 07	\$976,165 25	\$25,294,756 01	\$1,418,288 19

# MICHIGAN RAILROAD RETURNS.

# 2.—GENERAL EXHIBIT,—STATEMENT OF BALANCES.—CONTINUED.

Lowel Lowel Manie Manie Manie Manie Manie Manie Manie Manie Michi Can Liu Gra Jack Kali Kali Kali Kali Kali Kali Kali Kali	Railroads.  Shore & Michigan Southern System. troit, Hillsdale & Southwestern troit, Monroe & Toledo.  t Wayne & Jackson lamazoo, Allegan & Grand Rapids lamazoo & White Pigeon. Thern Central Michigan all & Hastings latee & Northeastern stique.  n & Oceana. ligan Air Line Railway.		Credit. \$990,409 77
Lowel Lowel Manie Manie Manie Manie Manie Manie Manie Manie Michi Can Liu Gra Jack Kali Kali Kali Kali Kali Kali Kali Kali	all & Hastings istes & Northeastern istique		\$980,409 7
Lowel Lowel Manie Manie Manie Manie Manie Manie Manie Manie Michi Can Liu Gra Jack Kali Kali Kali Kali Kali Kali Kali Kali	all & Hastings istes & Northeastern istique		
Lowel Lowel Manie Manie Manie Manie Manie Manie Manie Manie Michi Can Liu Gra Jack Kali Kali Kali Kali Kali Kali Kali Kali	all & Hastings istes & Northeastern istique		
Lowel Lowel Manie Manie Manie Manie Manie Manie Manie Manie Michi Can Liu Gra Jack Kali Kali Kali Kali Kali Kali Kali Kali	all & Hastings istes & Northeastern istique		
Lowel Lowel Manie Manie Manie Manie Manie Manie Manie Manie Michi Can Detro Milws Milws Milws Milws Milws Miner Mi	all & Hastings istes & Northeastern istique		
Lowel Lowel Manie Manie Manie Manie Manie Manie Manie Manie Michi Can Detro Milws Milws Milws Milws Milws Miner Mi	all & Hastings istes & Northeastern istique		1
Maschi Michi Michi Can Michi Can Michi Can Michi Can Michi Can Michi Milwer Milwe	nit d. nisetings stique. on & Oceans	290 R11 97	1
Mason Michi Can Can Dett Can Can Dett Can Can Dett Can Can Can Can Can Can Can Can Can Can	stique on & Oceana		
Mason Michi Can Michi Can Detro Can Jacc Grass Can Michi	n & Oceana	<b>41</b>	18,072 2
Michi Can Detrict	igan Air Line Railway	7,082 08 58,867 24	
9 Milwe Milwe Milwe Milwe Milwe Milwe Milwe Minne Musk Ontor Fonti Segin Toled Toled Trave Wabs Wisco Detro	igan Central System nada Southern Bridge troit & Bay City and River Valley kson, Lansing & Seginaw lamasoo & South Haven chigan Air Line R. R. chigan Midland & Canada ginaw By & Northwestern ledo, Canada Southern & Detroit		34,885 5
Milwe Milwe Milwe Milwe Milwe Milwe Milwe Minne Musk Ontor Ponti Segin Toled Toled Trave Wabs Wisco Detro	nada Southern Bridge		
Milwe Milwe Milwe Milwe Milwe Milwe Milwe Minne Musk Ontor Ponti Segin Toled Toled Trave Wabs Wisco Detro	troit & Bay City		<u> </u>
Milwe Milwe Milwe Milwe Milwe Milwe Milwe Minne Musk Ontor Ponti Segin Toled Toled Trave Wabs Wisco Detro	and Kiver Valley		
Milwe Milwe Milwe Milwe Milwe Milwe Milwe Minne Musk Ontor Ponti Segin Toled Toled Trave Wabs Wisco Detro	lamazoo & South Havan		
9 Milwe Milwe Milwe Milwe Milwe Milwe Milwe Minne Musk Ontor Fonti Segin Toled Toled Trave Wabs Wisco Detro	chigan Air Line R. R.		
Milwe Milwe Milwe Milwe Milwe Milwe Milwe Minne Musk Ontor Ponti Segin Toled Toled Trave Wabs Wisco Detro	chigan Midland & Canada		
Milwe Milwe Milwe Milwe Milwe Milwe Milwe Minme Musk Ontor Ponti Segin Toled Toled Trave Wabs Wisco Detro	rinaw Bay & Northwestern		
Milwe Milwe Milwe Milwe Milwe Milwe Milwe Minme Musk Ontor Ponti Segin Toled Toled Trave Wabs Wisco Detro	ledo, Canada Southern & Detroit		
Milwer Miner	aukee, Lake Shore & Western	i	272,200 3
Miner Miner Musk Ontor Ponti Segin Segin Segin Toled Troled	ronizaa & Northarn		81,622 8
Ponti Bagin Begin Bagin Bagin Bagin Toled Troled Trave Waba Waba Bagin Bag Bag Bag Bag Bag Bag Bag Bag Bag Bag	ral Range		47,660 1
Ponti Bagin Begin Bagin Bagin Bagin Toled Troled Trave Waba Waba Bagin Bag Bag Bag Bag Bag Bag Bag Bag Bag Bag	neapolis, St. Paul & Sault Ste. Marie	458,756 36	
Ponti Bagin Begin Bagin Bagin Bagin Toled Troled Trave Waba Waba Bagin Bag Bag Bag Bag Bag Bag Bag Bag Bag Bag	ral Range. seapolis, St. Paul & Sault Ste. Marie segon, Grand Rapids & Indiana nagon & Brule River	5,362 01	
Toled Trave Waba Wisco Detro	iac, Oxford & Northern		10,286 6
Toled Trave Waba Wisco Detro  Bear   Buckl Crawi Grass	naw, Tuscola & Huron	4,373 06	10,200 0.
Toled Trave Waba Wisco Detro  Bear   Buckl Crawi Grass	naw Valley & St. Louis	3,824 92	
Toled Trave Waba Wisco Detro  Bear   Buckl Grass	Inaw & Grand Bapids)		33,301 5
B Wabe. Wisco Detro  Bear I Buckl Craws Grass	iac, Oxford & Northern naw, Tuscola & Huron naw Valley & St. Louis rinaw & Grand Bapids lo, Ann Arbor & North Michigan lo, Saginaw & Muskegon	48,215 64	
8 Wabe. 4 Wisco Detro  1 Bear   Buck  8 Craws 4 Grass	do & South Haven	8,302 29	
Wisco Detro	erse Cityssh	b	305,728 6
1 Bear 1 2 Buck 8 Crawi	onein Central	b 397.226 32	300,120 0
Bear l Buckl Crawi	onsin Central oit, Union R. R. Depot & Station Co.		
1 Bear l 2 Buckl 3 Crawi 4 Grass	Total commercial roads.	\$1,367,661 98	\$2,210,044 76
3 Crawi 4 Grass	ORE AND FOREST ROADS.		
3 Crawi 4 Grass	Lake & Eastern		<b>\$3,515</b> 55
3   Crawi 4   Grass	Lake & Eastern ley & Douglas ford & Manistee River s Lake & Manistee River	c	
4 Grass	ford & Manistee River	\$1,015 84	198 1
D   Hecia	a & Torch Lake.	\$1,013 84	
B Hober	art & Manistee River		1,500 00
7 Lake	County stee & Luther		900 00
8 Manis 9 North	stee & Luther h Branch & Sauble River.		52,840 9 8,226 1
		\$1,015 84	<b>\$62,190</b> 86
	Total ore and forest roads.		

Included with G. R. & I.
 First report,
 Road abandoned and track taken up.

#### STATEMENT OF BALANCES.—CONTINUED.

Balance For	ward from 1888.	Taken to Acco	unt other than raffic.	Balances forward to 1890.		
Debit,	Credit.	Debit,	Debit, Credit, Debit,		Credit,	
	\$10,649,801 67		\$382,541 49		\$11,892,752 93	
				•••••••		
				••••••		
				•••		
•••••	31,152 04			\$29,311 27	49,224 32	
• • • • • • • • • • • • • • • • • • •	7,082 06				10,000 00	
<b></b>		• • • • • • • • • • • • • • • • • • • •	53,367 24	••••		
•••••	7,097,534 70	\$405,478 85	46,665 66		6,773,612 59	
				•••••		
•••••		• • • • • • • • • • • • • • • • • • • •				
· · · · · · · · · · · · · · · · · · ·		·				
			• • • • • • • • • • • • • • • • • • • •	<b></b>		
	194,927 82 213,081 28		15,298 98		482,422 11 294,794 09	
	213,081 28 136,488 73	<b></b>			294,794 09 184,148 84	
709,836 93	200,900 70	7,478 71		1,175,567 00	109,140 04	
14,999 77		<b></b>				
11,000 //		••		20,361 78	•	
					10,236 61	
42,156 09 97,259 08			456 00	46,529 15 100,627 95		
· · · · · · · · · · · · · · · · · · ·						
27,828 23	72,847 96			71,048 87	106,149 47	
		••				
5,366 29		<b> </b>		8,668 58		
185,174 07 188,178 80		409.028 58		288,474 02		
188,178 80			346,288 20	288,474 02 189,116 92		
			• • • • • • • • • • • • • • • • • • • •		·	
\$1,896,099 64	<b>\$25,161,755</b> 19	\$976,165 25	\$1,044,451 07	\$2,150,344 66	\$26,826,668 82	
	211 04				40 F98 00	
	\$11 84				\$3,526 89	
· · · · · · · · · · · · · · · · · · ·	7,184 76 5,177 68				7,382 91 4,162 29	
· · · · · · · · · · · · · · · · · · ·	5,177 68			• • • • • • • • • • • • • • • • • • •	4,162 29	
\$17,188 55	10 100 00	<b></b>		\$15,638 55	11 000 00	
· · · · · · · · · · · · · · · · · · ·	10,100 00 110,527 09				11,000 00 168,868 08	
<b></b>	- · · · · · · · · · · · · · · · · · · ·				153,368 08 3,226 15	
\$17,188 55	\$188,000 82			\$15,638 55	\$192,666 32	
\$1,418,288 19	\$25,294,756 01	\$976,165 25	\$1,044,451 07	69 188 000 1F	497 010 008 14	
41'4T0'000 IA	I ACOUTODS' LOG OT	1 4010,100 20	41,022,201 U	\$2,165,983 15	\$27,019,335 14	

## 3.—CAPITAL STOCK.

Line No.	Railroads.	Amount Authorized,	Par Value of Shares,	Number of Shares issued.
1 2 3 4 5	Battle Creek & Sturgis Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago , Kalamazo & Saginaw Chicago & Northwestern	\$1,000,000 00 1,000,000 00 1,005,000 00 6,600,000 00 2,000,000 00 Unlimited.	\$100 00 100 00 100 00 100 00 100 00 100 00	5,000 3,000 10,950 66,000
7 8 9 10 11 12	Chicago & West Michigan. Cincinnati, Jackson & Mackinaw. Cincinnati, Saginaw & Mackinaw. Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwaukee		100 00 100 00 100 00 100 00 100 00 50 00	67.832 162,908 20,433 16,700 20,000
18 14 15 16 17 18	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit Saginaw & Western Duluth, South Shore & Atlantic Marquette, Houghton & Ontonagon Marquette & Western	4,410,000 00 450,000 00 675,000 00 22,000,000 00 5,657,126 67 1,250,000 00	100 00 100 00 100 00 100 00 100 00 100 00	43,356 280 45 220,000 57,571 12,500
19 20 21 22 28 24 25 26	Flint & Pere Marquette	10,000,000 00 100,000 00 5,000,000 00 850,000 00	100 00 100 00 100 00 100 00	96,402 571 49,800 8,500
27 27 1/2 28 29 30 31 82 83	Lake Shore & Michigan Southern  Detroit & Chicago Detroit, Hillsdale & Sonthwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan	50,000,000 00 1,000,000 00 1,850,000 00 414,100 00	100 00 100 00 100 00 100 00 100 00 100 00 100 00	500,000 10,000 4,141 27,245 6,100 2,309 6,100
84 85 86 87 88	Lowell & Hastings Manistee & Northeastern Manistique Mason & Oceana Michigan Air Line railway		100 00 100 00 100 00 100 00 100 00	1,500 1,500 8,000
89 40 41 42 48 44 45 46 47 48	Michigan Central. Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line rallroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	Unlimited. 1,500,000 00 2,000,000 00 1,000,000 00 2,500,000 00 4,000,000 00	100 00 100 00 100 00 50 00 100 00 100 00 100 00 100 00 100 00	187,382 4,500 20,000 9,294 20,000 3,254 7,855 8,000 2,000
49 50 51 52 58 54	Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana Ontonagon & Brule River	10,000,000 00 8,000,000 00 400,000 00 21,000,000 00 850,000 00 1,000,000 00	100 00 100 00 100 00 100 00 100 00 100 00	70,000 51,550 8,917 210,000
55 56 57 58 59 60	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon		100 00 100 00 100 00 100 00 100 00 100 00	10,000 1,233 2,553 700 53,000

Includes stock of proprietary roads.

#### CAPITAL STOCK.—CONTINUED.

	olders.	Stockh			aid in.	· Amount Pa		
oN eat I	No, in Mich.	Whole No.	Amount Held in Michigan,	Per Mile of Road,	Total.	On Shares not Issued,	On Preferred,	On Common,
	None. None. 1	11 11 23 280	\$100 00 147,800 00	\$12,048 19 17,841 00 18,449 65 20,214 40	\$500,000 60 \$00,000 00 978,984 67 6,600,000 00			\$500,000 00 \$00,000 00 978,984 67 6,600,000 00
	13	3,395	98,000 00	79 44 17,602 08	3,575 00 a 74,815,320 53	<b>\$8,</b> 575 00	\$22,325,454 56	52,489,865 97
i	6 9 6	608 259 6	9,600 00 17,000 00	16,642 51 50,079 46 17,385 84	6,796,800 00 16,280,835 00 1,071,922 30	68,600 00 1,071,922 80	5,867,000 00	6,783,200 00 10,413,835 00
1	8 8 5	40 9 11	4,000 00 1,670,000 00 250 00	12,434 05 7,978 21 7,935 51	2,044,058 76 1,670,000 00 1,500,000 00	-,0.1,0		2,044,058 76 1,670,000 00 1,500,000 00
	1	481 8 9	10,500 00 None.	19,567 68 504 14 105 71	4,885,600 00 28,000 00 4,500 00		2,510,000 00	1,825,600 00 28,000 00 4,500 00
] 1	15 10	257 202 8	1,590,400 00 228,500 00	56,934 85 86,436 47 60,009 60	22,000,000 00 5,657,126 67 1,250,000 00		10,000,000 00 8,278,456 00 625,000 00	12,000,000 00 2,378,670 67 625,000 00
	12	1,684	142,700 00	16,001 52	9,840,200 00		6,342,000 00	8,296,200 00
								· · · · · · · · · · · · · · · · · · ·
	273 1	7 675 11	800 00 Unknown. 100 00	2,595 46 12,206 18 17,190 57	57,100 00 4,986,081 22 850,000 00			57,100 00 4,986,081 22 350,000 00
-	1 1 9 14 report, report,	3,264 11 2 310 92 No No	21,100 00 1,000 00 1,700 00 100 00 136,800 00 206,600 00 No report, No report,	57,812 16 14,792 90 20,505 52 6,640 47 27,890 55 10,441 00 6,295 00 9,977 12	50,000,000 00 1,000,000 00 1,850,000 00 414,100 00 2,727,554 80 610,000 00 230,900 00 610,000 00		533,500 00 436,133 28	49,466,500 60 1,000,000 00 1,850,000 00 414,100 00 2,291,421 52 610,000 00 230,900 00 610,000 00
	report.	7 No 7 7	No report, 150,000 00 2,000 00	100 00 751 89 3,680 98 5,555 55 2,840 91	10,000 00 80,000 00 150,000 00 150,000 00 800,000 00	10,000 00 80,000 00		150,000 00 150,000 00 800,000 00
4	17 None, 4 26 21 124	1,402 18 7 42 88 202	63,900 00 40,000 00 325,250 00 1,806,600 00 325,400 00	69,382 77 122,951 00 18,663 67 8,962 27 6,777 36 8,237 97	18,788,204 00 450,000 00 2,000,000 00 491,200 00 2,000,000 00 325,400 00			18,788,204 00 450,000 00 2,000,000 00 491,200 00 2,000,000 00 325,400 00
4	7 None.	8 14	1,200 00	20,435 96 2,239 39 27,701 13	300,000 00 200,000 00 1,547,662 50			Unknown. \$00,000 00 200,000 00 1,547,662 50
5	None.	856 40 No 61 7 9	None. No report, None. 1,000 00	10,760 45 17,041 32 28,041 18 26,672 76 27 14 24,571 00	7,000,000 00 5,155,000 00 391,700 00 21,000,000 00 1,000 00 491,420 00	1,000 00 491,420 00	5,000,000 00 7,000,000 00	2,000,000 00 5,155,000 00 891,700 00 14,000,000 00
	3 126 66	8 131 84 28 127	3,000 00 25,200 00 10,800 00 1,000 00	10,000 00 1,856 02 7,459 27 19,444 44 21,370 96 16,666 67	1,000,000 00 123,555 38 284,904 01 70,000 00 5,800,000 00 1,600,000 00	255 88 9,504 01		1,000,000 00 123,300 00 255,300 00 70,000 00 5,300,000 00 1,600,000 00

<sup>•</sup> Reported as the Toledo, Saginaw & Mackinaw.

#### 3.—CAPITAL STOCK.—CONTINUED.

Line No.	Railroads.	Amount Authorized	Par Value of Shares,	Number of Shares Issued,
61 62 63 64 65	Toledo & South Haven Traverse City Wabash Wisconsin Central Detroit Union Railroad Depot & Station Company	\$250,000 00 205,000 00 52,000,000 00 15,000,000 00 1,650,000 00	\$100 00 100 00 100 00 100 00 100 60	2,500 2,050 520,000 144,145 165,000
	Total for commercial roads	\$288,054,676 67		3,701,755
1 2 3 4	Bear Lake & Eastern Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake	\$250,000 00 50,000 00 52,000 00 150,000 00	\$100 00 100 00 100 00 100 00	1,046 500 380 1,000
5 6 7 8	Hobart & Manistee River Lake County.  Manistee & Luther North Branch & Sauble River	60,000 00 300,000 00 400,000 00 50,000 00	100 00 100 00 100 00 100 00	900 900 1,000 200
	Total for ore and forest roads	\$1,312,000 00		5,296
	Total for all roads	<b>\$289,366,676 67</b>		3,707,051

#### 4.-INDEBTEDNESS.

Line No.	Railroads.	Funded.	Unfunded,	Total,
1 2	Battle Creek & Sturgis	\$500,000 00		\$500,000 00
8 4 5	Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw	1,786,141 46 12,000,000 00	<b>\$964,374</b> 39	1,786,141 46 12,964,374 39
6	Chicago & Northwestern	104,985,500 00	4,631,885 27	109,617,385 27
7 8 814	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cin., Jackson & Mack.—W. H. Brown, Rec.	3,629,000 00	1,194,009 28 457,714 49 116,171 40	5,440,009 28 4,066,714 49 116,171 40
9 10 11 12	Cincinnati, Saginaw & Mackinaw. Cincinnati, Wabash & Michigan. Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwaukee.	886.873 00	836,896 23 83,273 30 48,919 98 1,028,646 65	836,886 23 969,646 30 2,543,919 98 6,228,646 65
18 14 15	Detroit, Lansing & Northern		466,886 94 133,883 50	3,908,836 94
16 17 18	Saginaw & Western Duluth, South Shore & Atlantic. Marquette, Houghton & Ontonagon. Marquette & Western.	8,368,355 00 4,856,700 00	8,656,992 11	12,025,347 11 4,856,700 00
19 20	Flint & Pere Marquette.  Manistee Port Huron & Northwestern.	l		
21 22 23	Saginaw & Clare County			
24 25 26	Frankfort & Southeastern Grand Rapids & Indiana Hancock & Calumet	222,000 00 12,479,000 00	1,369,908 09 128,442 57	222,000 00 13,848,905 09 878,442 57

#### CAPITAL STOCK.—CONTINUED.

		Amount I	Paid in.			Stocki	olders.	
On Common.	On Preferred.	On Shares not Issued,	Total.	Per Mile of Road,	Amount Held in Michigan.	Whole No,	No, in Mich,	Lipe No.
\$242,500 00 205,000 00 24,000,000 00 11,787,100 00 1,650,000 00	\$28,000,000 00 2,627,404 00		\$242,500 00 205,000 00 52,000,000 00 14,414,504 00 1,650,000 00	\$6,625 68 7,884 62 30,980 00 Not report'd	\$98,000 00 85,400 00 No report, 1,640,000 00	9 72 No 11 16	6 71 report,	61 62 63 64 65
<b>\$2</b> 59,188,884 31	\$94,544,947 84	\$1,681,276 69	\$355,414,608 84	\$20,708 10	\$8,859,800 00	14,382	961	-
\$104,664 00 50,000 00 85,000 00 100,000 00		<b>\$5,000 00</b>	\$104,664 00 50,000 00 40,000 00 100,000 00	\$5,814 66 5,000 00 8,338 33 18,333 83	\$50,000 00 40,000 00 200 00	7 7 8 6	7 7 8 2	1 2 3 4
60,000 00 100,000 00 20,000 00		60,000 00	60,000 00 60,000 00 100,000 00 20,000 00	6,498 51 5,454 54 1,562 50 2,000 00	60,000 00 100,000 00 20,000 00	7 7 6 7	7 6 6 7	5 6 7 8
\$469,664 00		\$65,000 00	<b>\$584,664</b> 00	\$3,656 07	\$270,200 00	55	50	
\$259,658,048 31	\$94,544,947 84	\$1,746,276 69	\$855,949,272 84	\$20,508 21	\$9,130,000 00	14,387	1,010	_

#### INDEBTEDNESS-CONTINUED.

iles of Road Owned.	Debt per Mile of Road Owned,	Indebtedness Previous Report.	Increase During 1889.	Decrease During 1889,	Total Interest on Indebtedness 1889.	
41.50 17.80	\$12,048 19		\$500,000 00			
59.37 326.50 44.20	30,084 92 39,707 11	\$1,786,141 46 12,896,966 40	67,467 99		\$65,700 00 687,424 04	
2,676.72	25,790 02	109,716,169 10	••••	\$98,783 88	5,544,927 12	
408.40 325.10	18,820 30 12,570 64 857 34	4,807,087 89 4,820,482 05	1,132,971 39 116,171 40	738,767 56	237,846 60 141,082 98	8
62,00 164,40 209,32 189,00	13,497 84 5,898 09 11,943 53 32,955 80	958,091 86 2,550,518 68 5,604,105 58	896,896 23 16,554 44 584,541 12	6,598 65	45,815 67 150,000 00 325,807 91	
221.57 55.54 42.57	17,841 54 22,851 16 18,401 46	8,860,647 58 1,237,462 21 566,000 00	48,189 <b>86</b> 8,921 29		242,099 29	
386.41 134.48 20.88	81,120 61	10,102,984 92 4,908,700 00	1,922,482 19	47,000 00	<b>652,315 21</b>	
624.94	15,778 94	6,421,855 27	8,489,527 80	•••••	457,110 05	
		2,742,405 06	• • • • • • • • • • • • • • • • • • • •	2,742,405 08		
22.00 408.49	10,000 00 33,902 67	13,260,828 27	222,000 00 588,074 82		h 896,977 67	
20.36	18,341 97	892,323 76		18,881 19	16,808 54	

F Includes \$507,645.40 paid for six branch roads.
h Includes interest for proprietary roads.
Operated by Manistee & Northeastern.

#### 4.—INDEBTEDNESS.—CONTINUED.

Line No.	Railroads.	Funded,	Unfunded.	Total.
27	Lake Shore & Michigan Southern	\$45,192,000 00		\$45,192,000 00
27 28 29 80 31 32 38	Detroit, Monroe & Toledo	924,000 00	-	924,000 00
31	Kalamazoo, Allegan & Grand Rapids	840,000 00		840,000 00
32 38	Lake Shore & Michigan Southern	400,000 00 1,525,000 00		400,000 00 1,525,000 00
34	Lowell & Hastings Manistee & Northeastern Manistique		\$121,968 02	121,868 02
85 86 87	Manistique		567,088 33 68,553 01	567,083 33 68,553 01
87 88	Mason & Oceana. Michigan Air Line Railway	1.508.888.87	64,611 19	64,611 19 1,508,666 67
39		10 000 000 00	9 997 809 89	. ,
40	Michigan Central Canada Southern Bridge.	1,000,000 00	2,667,583 56 1,118,968 89	12,667,583 56 2,118,368 89 8,576,000 00
40 41 42 43 44 45 46	Canada Southern Bridge.  Detroit & Bay City.  Grand River Valley.  Jackson, Lanaing & Saginaw.  Kalamazoo & South Haven.  Michigan Air Line R. R.  Michigan Midland & Canada.  Saginaw Bay & Northwestern.	a 8,576,000 00 c 1,500,000 00	1,118,968 89	8,576,000 00 1,500,000,00
43	Jackson, Lansing & Saginaw	2,419,000 00		1,500,000 00 2,419,000 00 700,000 00
44	Kalamazoo & South Haven	b 700,000 00 d 2,100,000 00		700,000 00
46	Michigan Midland & Canada	1 aza.0aa uu	391,401 53	2,100,000 00 715,096 58
47	Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	1,511,787 50	.1	3,268,303 41
49			222,209,33	11,518,208 33
50	Milwaukee, Lake Shore & Western	11,298,000 00 5,151,000 00	222,208 33 306,870 65 29,221 21	5,457,370 65
51 52	Mineral Range	612,100 00 21,000,000 00	29,221 21 1,122,223 23	641,321 21
58 54	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana Ontonagon & Brule River	750,000 00	40,465 95	22,122,223 23 790,465 95
	. •		1 9,381 27	9.281 27
56	Saginaw, Tuscola & Huron	190,000 00	452,277 00	9,281 27 642,277 00
57	Saginaw Valley & St Louis	446,000 00	118,602 18	564,602 18
55 56 57 58 59 60	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	5,040,000 00	638,865 74	5,678,865 74
- 1			1	1,662,751 88
61 62 63	Toledo & South Haven	216,000 00 440,000 00	41,238 61 8,750 00	257 <b>,23</b> 8 61 443,750 00
63	Wabash	e 78,000,000 00	1	78,000,000 00
64 65	Toledo & South Haven Traverse City Wabesh Wisconsin Central Detroit, Union R. R. Depot & Station Co.	18,391,978 38 600,000 00	2,067,870 38	20,459,348 76 600,000 00
_				
	Total commercial roads	\$393,357,187 01	\$27,760,083 59	\$421,117,270 60
	ORE AND FOREST BOADS.			
1	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake	\$6,000 00	\$19,544 14	\$16,554 14
2 8	Crawford & Manistee River		-	
4	Grass Lake & Manistee River			
5				
6	Hobart & Manistee River. Lake County. Manistee & Luther. North Branch & Sauble River	<b></b>	45,584 89 900 00	45,584 39 900 00
8	Manistee & Luther		99,284 56	99,284 56 16,783 91
9	North Branch & Sauble River		16,733 91	16,783 91
	Total ore and forest roads	\$6,000 00	\$580,808 60	\$596,906 60
	Total for all roads	\$393,363,187 01	\$28,840,390 19	\$421,708,577 20

a Issued by the Mich. Central. Secured by 1st mortgage on D. & B. C. Road. b \$650,000 issued by M. C. Road. Secured on Kal. & S. H. R'd \$70,000 2d mortgage. c Issued by Central. Secured on Grand River Valley Road. d \$1,800,000 issued by Mich. Central. Secured on M. A. C. Division. e On 1,678.50 miles of road. First report of reorganized corporation. f ('ompany reorganized during the year.

#### INDEBTEDNESS .- CONTINUED.

files of Road Owned,	Debt per Mile of Road Owned,	Indebtedness Previous Report,	Increase During 1889,	Decrease During 1889,	Total Interest on Indebtedness 1889,	
1,096.82 65.20		\$47 ,409,787 28		\$2,217,787 28	s \$3,752,660 40	
00.20	\$14,832 22	924,000 00				1
97.83	1 ' '	.k				1
58.42	14,878 00	· 840,000 00			• • • • • • • • • • • • • • • • • • • •	-
••••••	14,878 00 10,937 92 24,942 75	400,000 00 1,525,000 00			••	1
•••••	27,512 10	1,020,000 00				1
12.00	10,989 00		\$121,868 02			-
\$9.90 40.75	14,212 61	88,276 22	567,088 88 80,276 79	· •	31,827 53 2,215 89	ı
\$4.00	2.898 00	58,828 82	5,782 87		2,210 08	1
105.60	14,296 61	1,546,500 92	3,.02 3.	87,834 25	75,433 34	1
000.00	40.007.00	44 000 000 44	200 000 40		1 000 000 00	
270.07 8,66	46,905 00 578,789 00	11,696,683 14 2,048,018 79	980,900 42 75,850 10		1,080,000 00	
146.82	24,489 00	3,576,000 00	10,000 10			-
83.79	17.900 00	1,500,000 00				1
295.10	8,197 22 17.215 00	2,479,000 00		60.000 00		-1
89.50	17.215 00	710,000 00		10,000 00		-
115.16 14.68	18,285 00	2,100,000 00 689,115 24	25,921 29			١-
89.31		000,110 24	20,821 28			1
55.87	58,498 36	8,271,120 41		2,817 00		-1
650.52	17,706 69	10.017.000.10	672,946 15	1	851 400 00	1
808,25	18,700,09	10,845,262 18 4,552,410 64	904,960 01		671,499 89 287,957 88	١
17.00	37.724 77	670,671 75	002,000 01	29,850 54	184 72	١
787.82	18,040 89 37,724 77 28,098 18	22,088,399 00	88,824 23		962,124 86	ı
36.85 46.10	21,450 90	802,417 66		11,951 71		-
40.10		• • • • • • • • • • • • • • • • • • • •				ŀ
100.20	93 81	1,954,814 80		1,945,433 58		-
66.67 85.50	9,648 14 15,904 29	604,215 86 555,120 17	38,061 14 9,482 01		34,327 87	ł
3.60	10,804 28	300,120 17	8,402 01	••••	35,680 00	1
248.00	22,898 65	5,466,917 52	211.948 22		302,751 84	1
96.00	17,820 33	1,613,430 62	49,321 21		78,000 00	1
36.60	7.028 80	296,637 48	20,601 13		13,241 96	1
26.00	7,028 80 17,067 81	448,750 00				.
885.80	45,470 00		78 000,000 00		2,138,398 32 781,866 00	١
226.96 3.34	Not reported.		20,459,848 76 600,000 00		781,866 00 24,000 00	١
0.02			000,000 00		24,000 00	١
12,884.04	\$34,142 00	\$316,788,963 44	\$112,841,462 71	\$7,982,555 55	\$19,625,080 18	
18.00	\$919 67	\$19,285 12		\$2,780 98	\$1,280 09	1
40.00		110,987 17		110,967 17		-
13.00 13.50				····		1
13.50 7.50	67,683 28		\$407,249 60			1
9.24	4,983 37	59 490 11	1	6,845 72		1
11.00	4,965 57 81 81	52,490 11 500 00 129,765 27	400 00	0,545 72		1
64.00	1,551 32	129,765 27		30,480 71	8,292 13	1
64.00 10.00	1,683 09		16,733 91			-
146.24	\$40,096 00	\$812,947 67	\$424,888 51	<b>\$151,024</b> 58	\$9,522 22	-
		<del></del>				1
12,480.28	\$33,757 00	\$817,051,811 11	\$112,765,846 22	\$8,113,580 13	\$19,684,602 40	-1

#### MICHIGAN RAILROAD RETURNS.

#### 5.—COST OF PROPERTY COMPARED WITH STOCK AND DEBT.

Line No.	Railroads.	Total Reported Cost of Property.	Cost per Mile of Road,	Proportion of One for Michigan
1 2	Battle Creek & Sturgis.	<b>\$1,000,000 00</b>	\$24,096 38	\$1,000,000 00
8	Battle Creek & Sturgis Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk Chicago, Kalamaso & Baginaw. Chicago & Northwestern.	2,765,126 13 18,405,205 65	48,574 46 56, <b>36</b> 5 10	2,765,126 11 12,625,781 87
5 6	Chicago & Northwestern	162,548,585 18	38,243 29	14,591,727 30
7 8 9 10 11 12	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee	10,402,807 22 19,888,490 74 1,900,000 00 8,429,226 69 4,242,574 46 6,721,958 51	25,472 10 61,176 85 81,512 90 20,857 70 20,884 72 85,565 92	9,525,088 55 9,498,345 96 1,900,000 00 696,647 16 4,242,574 46 6,721,958 51
18 14 15 16 17 18	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit. Saginaw & Western Duluth, South Shore & Atlantic Marquette, Houghton & Ontonagon. Mappetta & Western	7,524,310 92 1,269,383 50 558,400 00 29,170,624 76 8,624,347 15	38,959 06 22,855 30 12,100 00 75,491 88 55,547 77	7,524,310 93 1,289,383 56 558,400 00 24,088,720 13 8,624,347 15
19	Flint & Pere Marquette	19,918,086 82	31,871 91	19,918,086 82
20 21 22 23 24 25 26	Manistee Port Huron & Northwestern Saginaw & Clare County Sagram & Mt Pleasant			
24 25 26	Flint & Pere Marquette.  Manistee Port Huron & Northwestern Saginaw & Clare County. Saginaw & Mt. Pleasant. Frankfort & Southeastern Grand Rapids & Indiana. Hancock & Calumet	266,805 60 16,986,267 29 757,490 50	12,127 53 41,583 07 37,204 83	206,905 60 14,778,052 54 757,490 50
27 27 4 28 29 30 31 32 33	Lake Shore & Michigan Southern  Detroit & Chicago Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo & White Pigeon Northern Central Michigan	84,000,000 00 5,176,557 58 1,298,648 59 1,381,600 00 2,719,579 58 1,450,000 00 610,000 00 1,357,000 00	90,032 44 76,576 29 19,764 55 22,155 22 27,799 05 24,820 00 16,680 00 22,195 00	21,047,902 49 4,818,712 07 1,288,648 59 1,196,318 81 1,228,168 79 1,450,000 00 610,000 00 1,357,000 00
34 35 36 37 88	Lowell & Hastings Manistee & Northeastern. Manistique Mason & Oceana. Michigan Air Line Railway	150,444 79 567,772 06 261,081 95 211,411 19 1,808,202 58	10,989 09 12,092 24 6,406 92 7,830 04 17,075 78	130,444 79 567,772 06 261,061 95 211,411 19 1,808,202 58
39 40 41	Michigan Central Canada Southern Bridge Detroit & Bay City	30,936,350 89 1,780,977 05 3,671,681 88 2,967,053 00	114,549 38 496,606 00	25,815,412 98 1,780,977 05 3,671,631 89
42 48 44 45	Grand River Valley Jackson, Lansing & Seginaw Kalamazoo & South Haven	2,867,058 00 8,154,659 56 395,400 00	34,229 17 27,633 54 10,010 13	2,867,053 00 8,154,659 56 395,400 00
46 47 48	Michigan Central Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line Railroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	586,842 02 225,526 15 3,115,069 99	39,941 56 2,525 20 55,755 68	586,342 02 225,526 15 2,635,571 14
49 50 51 52 53 54	Milwaukee, Lake Shore & Western. Milwaukee & Northern. Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie. Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River.	19,198,446 92 10,787.527 61 788 492 48	29,512 46 85,495 95 43,440 74 43,355 49 19,650 98 26,178 13	2,989,021 95 2,129,757 00 738,492 48 8,324,667 57 724,138 52 523,562 66
55 56 57 58 59 60	Pontiac, Oxford & Northern Saginaw, Tuscols & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	1 000 000 00	10,000 00 9,518 00 19,898 35 19,444 44 43,545 94 32,916 67	1,000,000 00 653,613 71 705,213 81 70,000 00 10,581,663 72 8,160,000 00

Included in report of Michigan Central Railroad in amount expended on leased lines.
 Not reported.
 Included with Marquette, Houghton & Ontonagon
 Capital accounts not yet stated.

#### COST OF PROPERTY COMPARED WITH STOCK AND DEBT .-- CONTINUED.

Proportion of Cost for Michigan Previous Year,	Increased Cost, 1889,	Decreased Cost, 1889.	Total Stock and Debt,	Stock and Debt Per Mile of Road,	Excess of Stock and Debt over reported cost per Mile of Road.	Line No.
	\$1,000,000 00		\$1,000,000 00	\$24,096 38		1
\$2,765,126 18 12,649,546 36		\$28,764 99	2,881,141 46 19,564,874 39 8,575 00	48,528 57 59,921 51	\$1,954 11 8,556 41 79 44	1 2 3 4
14,468,825 50	122,901 80		184,482,705 80	79 44 43,392 05	5,148 78	5 6
9,489,828 55 9,857,122 05 676,915 80 4,209,546 07 6,709,479 90	35,714 97 1,900,000 00 19,731 38 83,028 89 12,478 61	963,776 06	12,286,809 28 20,387,549 49 1,906,788 58 8,018,705 06 4,213,919 98 7,728,646 65	29,962 81 62,651 08 30,888 68 18,331 54 19,921 74 40,892 31	4,490 71 1,474 68 5,826 89	7 8 9 10 11
7,523,431 78 1,265,462 21 570,500 00 22,442,421 55	879 14 8,921 29 1,596,298 58 8,624,347 15	12,100 00	8,244,486 94 1,269,388 50 566,105 71 34,025,847 11 10,518,826 07	87,209 17 22,855 90 13,401 46 88,054 96 67,717 55	3,250 11 1,301 46 12,563 58 12,189 78	15 14 15 16 17 18
15,977,076 88 524,513 42 8,581,418 60	8,941,009 94	524,513 42 3,581,418 60	19,860,882 57	81,780 46		11 20 21 22 22 24 24
14,651,360 S1 746,104 28	266,805 60 126,692 28 11,886 22		277,100 00 18,884,984 31 728,442 57	12,595 46 46,108 80 35,582 54	467 98 4,525 78	
21,047,902 49 4,318,712 07 1,288,648 59 1,196,381 88 1,288,168 79 1,450,000 00 610,000 00 1,857,000 00			96,286,000 00 1,000,000 00 1,350,000 00 1,358,100 00 2,727,554 80 1,450,000 00 680,900 00 2,135,000 00	h 45,051 41 14,782 90 20,705 52 21,472 69 27,880 85 24,820 00 17,251 84 24,942 75	940 97 571 84 2,747 75	27 - 22 26 26 26 30 31 32 33
168,801 20 192,253 52 1,786,810 86	180,444 79 567,772 06 92,280 75 19,157 67 16,392 22		181,868 02 597,068 33 218,558 01 214,611 19 1,808,666 67	10,989 00 14,970 50 5,968 26 7,948 56 17,127 52	2,878 26 118 52 51 74	34 35 36 37 38
25,811,892 45 1,780,977 05 8,685,121 37 2,867,058 00 8,147,491 47 1,085,400 00	8,520 58 86,510 01 7,168 09	840,000 00	39,011,787 56 2,568,368 89 2,000,000 00 1,991,200 00 4,419,000 00 395,400 00	144,450 65 701,740 00 13,668 67 84,229 17 14,974 58 10,010 18	29,901 27 215,134 00 13,668 67	40 41 42 48 44
586,842 02 225,526 15 2,610,290 58	25,280 61		1,015,096 58 200,000 00 4,815,965 91	69,144 17 2,239 39 86,199 49	29,202 61 30,443 81	48 48 48
3,129,698 93 2,065,939 12 723,340 97 6,471,369 25 718,238 55 513,058 92	63,817 88 15,151 51 1,853,318 12 10,899 97 10,503 74	140,676 98	18,518,206 33 10,612,370 65 1,033,021 21 43,122,223 23 791,465 95 491,420 00	28,467 64 35,082 31 60,765 95 54,770 89 21,478 04 24,571 00	17,325 21 11,415 40 1,827 08	49 50 51 52 53 54
3,026,422 10 626,654 76 705,213 81 70,000 00 10,780,855 20 3,160,000 00	6,958 96	2,026,423 10 199,191 48	1,009,381 27 765,832 38 829,406 19 70,000 00 10,978,865 74 3,282,751 88	10,093 81 11,504 16 28,365 55 19,444 44 44,269 61 33,987 00	98 81 1,986 16 3,470 20 723 67 1,070 88	55 56 57 58 58 60

e Reported as Chicago & Canada Southern.

Absorbed by the Manistee & Northeastern.

No cost for Michigan reported for previous years.

For 1,028.48 miles.

## 5.—COST OF PROPERTY COMPARED WITH STOCK AND DEBT.—CONTINUED.

Line No.	Railroads.	Total Reported Cost of Property,	Cost per Mile of Road,	Proportion of Cost for Michigan,
61 62 68 64 65	Toledo & South Haven. Traverse City Wabash. Wisconsin Central Detroit Union Railroad Depot & Station Co	\$258,909 84 454,164 54 129,970,000 00 14,806,868 57 2,250,000 00	\$6,920 99 17,467 84 77,450 00 63,086 94	\$253,308 24 454,164 54 6,126,295 00 865,565 25 2,250,00 00
	Total for commercial roads	<b>\$688,726,456</b> 87	\$55,020 61	\$264,440,581 14
1	Bear Lake & Eastern	\$123,960 46	\$6,886 69	\$123,960 46
2 3 4 5	Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake	57,184 76 40,000 00 507,249 60		57,184 76 40,000 00 507,249 60
6 7 8 9	Hobart & Manistee River Lake County Manistee & Luther North Branch & Sauble River	70,900 00 \$52,820 78	6,445 54	77,716 76 70,900 00 352,320 78 50,857 33
	Total for ore and forest roads	\$1,280,189 69	\$8,754 08	\$1,290,189 69
	Total for all roads	\$690,006,646 56	<b>\$55,207 68</b>	<b>\$26</b> 5,7 <b>20</b> ,770 81

#### 6.-TRACK MILEAGE.

No.		Road	Owned.	Road O	perated.
Line N	Railroads.	Total Miles,	In Michigan Miles,	Total Miles,	In Michigan Miles,
1	Battle Creek & Sturgis	41.50	41.50 17.30	44.00	44.00
2	Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction	17.30 59.37	59.37	59.87	59.37
ĭ	Chicago & Grand Trunk	326.50	224.00	335.27	224.00
5	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw	44.20	44.20	35.66	35,66
6	Chicago & Northwestern	2,676.72	381.55	4,250.38	381.55
7	Chicago & West Michigan	408.40	373.94	408.40	373.94
8	Cincinnati, Jackson & Mackinaw	325.10	155.18	348.10	172,18
9	Cincinnati, Saginaw & Mackinaw	62.00	62.00		
10	Cincinnati, Wabash & Michigan	164.40	83.40	164.40	
11	Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee	209.32	209.32	209.82	309.82
12	Detroit, Grand Haven & Milwaukee	189.00	189.00	189.00	189.00
13	Detroit, Lansing & Northern	221.57	221.57	323.68	323.68
14	Grand Rapids, Lansing & Detroit	55.54	55.54		
15	Saginaw & Western	42.57	42.57		
16	Duluth, South Shore & Atlantic)	386.41	318.43	577.77	
17	Marquette, Houghton & Ontonagon	134.48	134.43		
18	Marquette & Western)	20.83	20.83		
19 20	Flint & Pere Marquette Manistee	624.94	624.94	624.94	624.94
21 22	Port Huron & Northwestern				
28	Saginaw & Clare County Saginaw & Mt. Pleasant				
24	Frankfort & Southeastern	22.00	22.00	22.00	22.00
25	Grand Rapids & Indiana	408.49	355,38	556.94	418,23
26	Hancock & Calumet	20.36	20.36	20.36	20.36

# COST OF PROPERTY COMPARED WITH STOCK AND DEBT.—CONTINUED.

Proportion of Cost for Michigan Previous Year.	Increased Cost, 1889.	Decreased Cost, 1889,	Total Stock and Debt.	Stock and Debt per Mile of Road,	Excess of Stock and Debt over reported cust per Mile of Road.	)     
\$249,670 86 454,164 54	\$3,637 48 6,126,295 00		\$499,788 61 648,750 00 180,000,000 00	\$13,653 98 24,951 98 77,450 00	\$6,782 99 7,484 09	
1,979,889 85	865,565 25 270,110 15		Not reported. 2,258,000 00			8
<b>\$244</b> ,182, <b>464 6</b> 9	\$27,819,980 08	\$7,511,863 63	<b>\$742,898,255</b> 72	\$60,281 14	\$5,210 58	
123,960 46 104,402 44		104,402 44	\$121,218 14	\$6,734 88		
57,184 76		202,100 71	50,000 00	5,000 00		1
40,000 00			40,000 00	3,838 83		
475,380 67	81,918 98		507,249 60	67,633 28		:
77,716 76			105,584 89	11,426 88	\$8,015 98	١,
70,600 00	300 00		60,900 00	5.596.85	40,020 00	
381,088 82	21,236 96		199,284 56	5,536 85 8,118 82		1
	50,857 88		86,738 91	3,673 09		1
\$1,280,278 91	\$104,318 22	\$104,402 44	\$1,120,970 60	\$7,665 28		
\$245,412,748 60	\$27,924,298 80	<b>\$7,616,266</b> 07	<b>\$744</b> ,014,225 72	\$59,585 55	\$4,827 92	Γ

#### TRACK MILEAGE.—CONTINUED.

Main.	Main	Sidings and	Estimated as a single	Gas	uge.	Main Track,	Increase,	Decrease,	Track in joint use.
<b></b>	Second,	Spurs.	track.	Feet,	Inches.	1888.	1889.	1889.	Miles.
41.50		8.77	45.27	4	814		41.50		
17.80		.85	18.15	4	814		17.30		
59.37	1	25.85	85.22	1 4	814	59.37			
24.00		48.30	272.30	1 4	814	224.00			
44.20	1	3.50	47.70	I 4	81,4	80.58	18.62		
81.55		87.47	469.02	4	81/4	312.76	68.79		
78.94		112.11	486.05	4	814	378.94	• • • • • • • • • • • • • • • • • • •	<u>                                     </u>	
55.18		14.76	169.94	4	814	155.18	<b></b>		17.00
62.00	1	14.00	76.00	4	814		62.00	1	
83.40		7.60	41.00	4	814	33.40			
09.82	1	23.66	232.98	4	814	204.43	4.89		
89.00		62.59	251.59	4	81/4	189.00			
21.57		92.83	314.40	4	814	221.57		 	4.00
55.54		d	55,54	1		55.54			
42.57	1	9.12	51.69	4	81/4	42.57			
18.43	1	47.09	365.52	1 4	814	305.20	18.28		1.78
34.43	1	40.26	174.69	1 4	814	121.48	2.95	l	1.50
20.83		8.85	29.68	4	814	22.65		1.82	
24.94		289.59	894.58	b		858.05	27.36		
				<b></b> -		26.53			
						218.00	•••••		
								1	
22.00		2.00	24.00	4	814		22.00	<del>-</del>	[
55.38 20.36		95.64 11.02	451.02 31.38	8	81/2	356.09 20.36	·	.71	

## MICHIGAN RAILROAD RETURNS.

#### 6.-TRACK MILEAGE.-CONTINUED.

Š.		Road	Owned.	Road O	perated.
Z egy	Railroads.	Total Miles,	In Michigan Miles.	Total Miles,	In Michigan Miles,
27	Lake Shore & Michigan Southern System	1,098.82	402.62	1,409.55	
28		65.20	65.20		
ão I	Fort Wayne & Jackson	97.83	44.54		
ii	Kalamazoo, Allegan & Grand Rapids	58.42	58.42		
27 28 29 80 81 82 83	Fort Wayne & Jackson Kalamazoo, Allegan & Grand Bapids Kalamazoo & White Pigeon Northern Central Michigan	•			
	· ·			•••••	
4	Lowell & Hastings. Manistee & Northeastern	12.00	12.00	12.00	12.0
2	Manistee & Northeastern	89.90 40.75	39.90 40.75	24.00 40.75	24.0 40.7
7	Manistique	34.00	34.00	\$4.00	
15 16 17 18	Mason & Oceana Michigan Air Line Railway	105.60	105.60	105.60	105.6
99	Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley. Jackson, Lansing & Seginaw Kalamasoo & South Haven Michigan Air Line Railroad Michigan Midland & Canada Seginaw Bay & Northwestern. Toledo, Canada Southern & Detroit	270.07	221.00	1,556.47	1,054.8
10 11 12 18 14 15	Canada Southern Bridge	3.66	3.66 146.32		
1	Grand River Valley	146.32 83.79	83.79		
ir I	Jackson, Lansing & Saginaw	295.10	295.10		
ĬĂ	Kalamazoo & South Haven	39.50	39.50		
15	Michigan Air Line Railroad	115.16	109.10		
16	Michigan Midland & Canada	14.68	14.68		
17 18	Saginaw Bay & Northwestern	89. <b>31</b> 55.87	89.31 47.27		
- 1	2010 10 The second of the seco		1	201	
9	Milwaukee, Lake Shore & Western Milwaukee & Northern	650.52 <b>3</b> 08.25	101.28 60.75	691.75 820.45	101.2 \$20.4
ĭ	Mineral Range	17.00	17.00	17.00	17.0
2	Minneapolis, St. Paul & Sault Ste. Marie	787.32	192.01	799.85	192.0
8 1	Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana	96.85	36.85		
ă	Ontonagon & Brule River	46.10	46.10	46.10	46.1
5	Pontiac, Oxford & Northern	100.20	100.20	100.20	100.2
6	Saginaw, Tuscola & Huron	66.57	66.57	66.57	66.5
6 7 8	Saginaw Valley & St. Louis	35.50 3.60	35,50 3,60	45.10	45.1
9	Toledo, Ann Arbor & North Michigan	248.00	243.00	323.20	315.2
Ŏ	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	96.00	98.00	96.00	96.0
1	Toledo & South Haven	36.60	36.60	36.60	36.6
2	Traverse City	26.00	26.00	007 00	79.1
3	Wabash	335.30 226.98	75.20 13.74	335.30 846.29	13.7
3 4 5	Wisconsin Central Detroit Union Railroad Depot & Station Co	c 3.34	3.84		10.1
-	m. 10			44 880 08	
	Total for commercial roads,—miles  OBE AND FOREST BOADS.	12,334.04	6,618.31	14,576.37	6,872.4
1	1	18.00	18.00	18.00	18.0
1 2 3	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River				
3	Crawford & Manistee River	13.00	13.00	13.00	13.0
4 5	Hecla & Torch Lake	13.50 7.50	13.50 7.50	13.50 7.50	18.1 7.5
- 1			1		
6 7	Hobart & Manistee River	9.24 11.00	9.24 11.00	9.24 11.00	9.5 11.0
ģΙ	Manistee & Luther	64.00	64.00	64.00	64.0
8 9	Lake County Manistee & Luther North Branch & Sauble River	10.00	10.00	10.00	10.0
	Total for ore and forest roads,—miles	146.24	148.24	146.24	146.3
	Total for all roads,—miles	12,490.28	6,759,55	14,722,61	7.018.7

Included with Lake Shore & Michigan Southern Railway Company report.
 Operated by Grand Rapids & Indiana Railroad Company.
 Included with Detroit, Lansing & Northern Railroad Company.
 Operated by Wabash Railroad Company.

#### TRACK MILEAGE.—CONTINUED.

<b>5</b>	Main	Sidings and	Estimated	Gat	ige.	Main Track.	Increase.	Decrease.	Track in
Main,	Second,	Spurs,	as a single track.	Feet.	Inches.	1888.	1889.	1889.	joint use, Miles.
402.62		94.24	496.86	4	91/	339.68	62.94		
65.20		4.29	69.49	i	81/4 81/4	65.20	04.52		
00120		2.00	00.10		0/1	40.00			
44.54		5.29	49.88	4	81/4	44.54			
58.42		10.36	68.78	4	81/6	58.42			
							<b></b> -		
40.00			10.00		01/	10.00		l	
12.00 39.90		4.50	12.00	1	81/4 81/4	12.00 21.04	18.86		
40.75		1.00	41.75	1	81/2	94.00	16.75		
84.00		1.00	44.40 41.75 84.00	8	078	24.00 27.00	7.00		
105.60		7.44	113.04	4	81/4	105.59	.01		
200.00				•		200.00	.01		
221.00	120.00	162.40	503.40	4	81/2	221.00			
3.66		9.06	12.72		81/4	3.66			
146.32		42,22	188.54	4	814	142.89	8.43		
88.79		15.56	99.85	4	l 8¼	88.79			
295.10		190.11	485.21	4	81/2	295.10			
39.50		4.17	43.67	4	81/2 81/2	89.50			
109.10		15.70	124.80	4	872	109.10		!	
14.68		.81 2.59	15.49 91.90	4	81/2 81/2	14.68 87.21	2,10		
89.31 47.27		28.09	75.36	1	81/4	47.27	2,10		
41.21		20.00	10.00	*	078	71.21			
101.28		25.71	126.99	4	81/2	101.24	.04		i
60.75		18.19	78.94	4	814	58.00	2.75		
17.00		5.00	22.00		1 81.4	17.00		1	
192.01		21.83	213.84	4	81.	192.01			
36.85		8.46	45.31	4	0%	86.85			
46.10		1.50	47.60	4	81/4	20.00	26.10	l	
	1			l		1		ŀ	ļ
100.20		6.80	107.00	4	81/4	100.20			
66.57		9.29	75.86	4	81/4	66.57			
85.50		5.64	41.14	. 4	81/2	85.50			6.00
3.60		33.00	8.60 276.00	4	072	3.60 240.00	3,00		
243.00 96.00		8.09	104.09	4	81/4 81/4 81/4	96.00	3.00	<del></del>	
80.00		0.00	104.08	•	079	80.00			
86.60		1.20	87.80	8		36.60		l	1
28.00		2.68	28.68	8 4	814	26.00			
75.20		30.79	105.99	4	81/4	75.20			3.90
75.20 13.74		5.07	18.81	4	81/6		18.74		
8.84		3.50	6.84	4	81/4 81/4 81/4 81/4	3.34			
								l	i
8,618.31	120.00	1,765.44	8,498.75			6,185.48	430.36	2.53	84.18
18.00			18.00	8		18.00			
						!			
13,00			13.00	8		10.00	3.00		
13.50			13.50	8		12.00	1.50		
7.50			7.50	8		7.50			
		ا مد مد		_	1			ł	1
9.24		10.00	19.24	3		9.24			
11:00			11.00	3 3 8	<b></b> -	11.00 47.50			
64.00			64.00	3		47.50	16.50		
10.00			10.00				10.00		
146.24		10.00	156.24			115.24	31.00		
<del></del>			8,654.99						
3,759.55	120.00	1,775.44				6,800,72	461.36	2.58	

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#### 7.—TRAFFIC EARNINGS.

ď		Passeng	er :	Department.
Line No.	Railroads.	Passenger Fares.	•	Express and Baggage,
1	Battle Creek & Sturgis Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamasoo & Saginaw Chicago & Northwestern	a \$7,281	28	\$2,127 78
2 3	Chicago, Detroit & C. G. T. Junction	129,075	63	10,211 04
4	Chicago & Grand Trunk.	1,014,408	06	57,198 24
5 6	Chicago & Northwestern	16,461 6,384,207	51	571 22 382,734 43
7				10 506 04
8	Chicago & West Michigan. Cincinnati, Jackson & Mackinaw. Cincinnati, Jackson & Mackinaw, W. H. Brown, Receiver. Cincinnati, Wabash & Michigan	495,483 140,084 28,001	24	19,505 94- 29,506 08
9 10	Cincinnati, Jackson & Mackinaw, W. H. Brown, Receiver	28,001	32	5,090 88
11 12	Detroit. Bay City & Alpena	206,472 88,725	80	11,173 61 1,908 49
12	Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwaukee.	433,518	41	25,724 66
18 14	Detroit, Lensing & Northern	461,652	15	17,153 92
15 16	Saginaw & Western	4KE 700	ĒĀ.	14 508 00
17 18	Detroit, Lansing & Northern	450,700		14,390 W
19	Vint & Pero Managetto	775 010	80	97 819 87
20	Manistee.	110,010		87,613 57
20 21 22 28 24 25 26	Port Huron & Northwestern			<b></b>
28	Saginaw & Mt. Pleasant		• • • •	
24	Frankfort & Southeastern	704 450	- 21	31,147 23
25 26	Manistee. Port Huron & Northwestern Saginaw & Clare County. Sarinaw & Mt. Pleasant. Frankfort & Southeastern Grand Rapids & Indiana Hancock & Calumet.	794,452 16,966	99 99	31,147 23 212 34
27 28 29 30	Lake Shore & Michigan Southern System.  Detroit, Hillsdale & Southwestern.  Detroit, Monroe & Toledo.  Fort Wayne & Jackson.  Kalamazoo, Allegan & Grand Rapids.  Kalamazoo & White Pigeon.  Northern Central Michigan:	5,082,480	41	485,933 39
29	Detroit, Minsusie & Southwestern			
30	Fort Wayne & Jackson			
81 82	Kalamazoo, Allegan & Grand Kapids			<b></b>
33	Northern Central Michigan:			
84				
85	Lowell & Hastings. Manistee & Northeastern. Manistique.	18,074	55	86 00
36 37	Mason & Oceana		70	2,961 15
88	Mason & Oceana. Michigan Air Line Railway.	82,062	88	2,981 15
39	Michigan Central System.	4,327,091	sŧ	368,334 08
40	Canada Southern Bridge		<b></b>	
41 42	Grand River Valley			
43	Jackson, Lansing & Seginaw			
44 45 46 47	Michigan Air Line Railroad			
46	Michigan Midland & Canada.			
48	Michigan Central System Canada Southern Bridge. Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven. Michigan Air Line Railroad. Michigan Midland & Canada. Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit			
40	Milwaukee, Lake Shore & Western Milwaukee & Northern	578,719 309,364 33,486 307,565	74	21,007 82
49 50		90 1GR	74	1,198 <b>63</b> 8,759 94
50 51	Mineral Range			7. (300 MA)
50 51 52 58	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana.	307,565		1
50 51 52 58 54	Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana Ontonagon & Brule River	1,891	67	15 50
50 51 52 58 54	Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana Ontonagon & Brule River	1,891	67	15 50 2.490 48
50 51 52 58 54 55 56 57	Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana Ontonagon & Brule River	1,891	67	15 50 2,490 48 418 18
50 51 52 58 54	Minneral Range.  Minnespolis, St. Paul & Sault Ste. Marie.  Muskegon, Grand Rapids & Indiana.  Ontonagon & Brule River.  Pontiac, Oxford & Northern. Saginaw, Tuscola & Huron. Saginaw Valley & St. Louis. Saginaw & Grand Rapids.  Toledo, Ann Arbor & North Michigan.  Toledo, Saginaw & Muskegon.	1,891	67 06 55 79	15 50

Includes Ackerman, Receiver.
 Detroit Division only.

## TRAFFIC EARNINGS .-- CONTINUED.

	•	ent.	ight Departm	Fre	rtment.	enger Depar	Pass
;	Total Traffic Earnings.	Total.	Other Sources.	Freights.	Total.	Other Sources.	Mails,
-	\$19,151 16	\$8,144 98		\$8,144 98	\$11,006 18	\$19 24	\$1,577 98
	249,267 61 3,781,170 82 34,128 69 25,945,087 95	100,606 26 2,618,488 43 15,434 80 18,596,690 49		100,606 26 2,618,483 43 15,484 80 18,596,690 49	148,661 35 1,112,687 39 18,688 89 7,348,397 46	206 94	9,374 68 41,096 09 1,448 97 581,455 52
	1,874,888 30 525,730 68 94,911 77 584,062 59 485,105 76 1,065,828 05	818,699 87 837,392 64 63,675 57 303,995 56 376,729 19 580,227 49	\$184 71 7,778 28	818,565 16 837,392 64 63,675 57 296,222 33 376,729 19 580,227 49	556,183 43 188,338 04 81,236 20 280,087 08 108,876 57 485,595 56	1,200 00 6,574 15	99,994 15 18,797 72 8,144 00 12,421 82 11,168 13 26,352 49
1	1,121,413 86	604,886 72	3,005 76	601,880 98	516,527 14		87,721 07
1	1,933,026 99	1,482,626 83	8,951 88	1,423,674 95	500,400 18	890 11	28,125 48
1	2,832,279 60	1,449,242 05		1,449,242 05	888,037 55	20,994 66	48,610 63
222222222222222222222222222222222222222							
1	2,472,220 42 184,163 79	1,576,288 40 116,166 81	40,690 70	1,535,597 70 116,166 81	895,982 02 17,996 98	22,858 70	47,473 88 817 <b>65</b>
20 20 20 20 20 20 20 20 20 20 20 20 20 2	19,286,564 21	12,545,909 78	209,065 21	12,886,744 52	6,690,754 48		1,122,840 68
99 09 69 69	3,586 14 46,620 09 44,685 99 39,599 80 152,640 45	28,294 84 44,208 88 83,651 84 110,313 90		2,372 09 28,294 84 44,208 83 33,651 84 110,313 90	18,325 25 482 16 5,947 96 42,326 55		164 70 940 26 7,282 52
4 4	18,682,204 22	8,736,962 70		8,796,962 70	4,945,241 52		249,816 07
444							
4							
5 5	3,474,667 29 1,226,604 31 105,384 45 1,623,294 39	2,798,690 44 871,326 50 69,711 66 1,244,791 50	23,022 51	2,793,295 94 871,326 50 69,711 66 1,221,768 99	681,036 85 855,277 81 85,672 79 878,502 89	949 60 28,613 83	51,754 94 23,956 15 987 42 33,563 38
5	5,780 48	8,977 86		3,977 86	1,752 57		45 40
555	102,000 27 106,570 05 95,956 01	56,224 61 64,190 83 43,700 33	9 00	56,224 61 64,190 83 43,691 33	45,775 66 42,879 22 52,255 68		5,780 12 2,891 49 8,800 84
5 6	953,029 78 91,870 24	685,402 09 58,594 66	29,106 48	656,295 61 58,594 66	267,627 69 33,275 58		24,051 42 4,497 00

c Included with Grand Rapids & Indiana.
d Absorbed by the Manistee & Northeastern.

## 7.—TRAFFIC EARNINGS.—CONTINUED.

Žo.		Passenger 1	Department.
N earl	Railroads.	Passenger Fares,	Express and Baggage.
61 62	Toledo & South Haven	\$12,267 18	\$1,064 05
68 64 65	Wabash. Wisconsin Central Detroit Union Railroad Depot & Station Company.	ь <b>433</b> ,815 16 515,249 76	9,673 37 43,063 52
	Total for commercial roads. ORE AND FOREST ROADS.	\$23,482,884 19	\$1,660,429 98
1 2 3 4 5	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake		l
6 7 8 9	Hobart & Manistee River. Lake County. Manistee & Luther. North Branch & Sauble River.	400 69	
	Total for ore and forest roads	\$4.96 05	
	Total for all roads	\$23,482,670 24	\$1,660,429 98

#### 8.-GROSS INCOME.

Line No.	`Railroads.	Traffic Earnings, (Table 7.)	Operating Receipts Other than for Traffic Earnings,	Total Receipts from Operation,
1 2 3	Battle Creek & Sturgis Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk	1	\$761 50 1,604 60 240,192 87	
5 6	Chicago, Kalamazoo & Saginaw. Chicago & Northwestern.	34,128 69 25,945,087 95	240,192 87	34,123 69- 26,185,280 82
7 9 10 11 12	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cin. Jack & Mack., W. H. Brown, Receiver. Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee	525,780 68 94,911 77 584,062 59	2,732 78 60 21 2,108 67	528,463 46- 94,974 98- 534,062 59 487,209 43
18 14	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit. Saginaw & Western	1,121,418 96	10,572 05	1,131,985 91
15 16 17 18	Duluth, South Shore & Atlantic  Marquette, Houghton & Ontonagon  Marquette & Western	1.933.026 99	43,823 39	1,976,350 38
19 20 21	Flint & Pere Marquette			2,332,279 60-
22 23	Saginaw & Clare County Saginaw & Mt. Pleasant			
24 25 26	Frankfort & Southeastern Grand Rapids & Indiana Hancock & Calumet	2,472,220 42	23,512 48 498 65	2,495,732 90 194,657 44

#### TRAFFIC EARNINGS .- CONTINUED.

١			Freight Department.					nt.	enger Depart	Pass
T time N		Total Traffi Earnings,	Total.		Other Sources,	is.	Freights.	Total.	Other Sources.	Mails,
6	98	\$24,182	55	\$9,597		7 55	\$9,597	\$14,585 48		\$1,254 20
6	87 44	1,907,983 2,006,371	09 21	1,338,887 1,387,360	\$10,600 29	7 09 9 92	1,338,887 1,876,759	469,096 78 619,011 28	\$7,466 31 29,238 89	18,141 94 81,459 76
<del> -</del> 	45	\$96,881,919	35	\$59,128,295	\$382,694 27	1 08	\$58,795,601	7,758,624 10	\$119,011 98	\$2,491,798 00
1	61	<b>\$10,708</b>	25	\$10,623		S 25	\$10,623	<b>\$85 86</b>		••••
84	82	14,735 12,787 97,454	82	14,735 12,787 97,454		7 82	14,785 12,787 97,454			
8	78 08 28 44	32,281 20,061 137,388 12,389	78 08 54 44	32,281 20,061 136,987 12,389		1 08 7 54	82,281 20,061 136,967 12,389	400 69		
-	88	\$887,806	78	\$837,820		0 78	\$887,820	\$486 05		•
T	 28	\$87,219,726	13	\$59,465,616	\$332,694 27	21 86	\$59,132,921	7,754,110 15	\$119,011 98	\$2,491,793 00

## GROSS INCOME.—CONTINUED.

Income from Sources Other than Operating.	Total Income, 1889.	Proportion for Michigan.	Proportion for Michigan, 1888.	Increase of Income, 1889,	Decrease of Income. 1889,	Line No.
\$6,945 61 169 78	\$19,151 16 250,029 11 8,732,775 42 84,123 69 26,185,260 82 1,862,978 91 528,683 24 94,971 98 534,062 59 447,209 48 1,076,612 71	\$19,151 16 250,029 11 2,499,985 33 34,123 69 2,350,611 92 1,265,180 49 261,460 49 46,989 44 108,501 57 467,209 43 1,076,612 71	\$248,834 89 2,156,911 59 2,205,882 92 1,301,588 26 272,645 08 99,477 47 458,288 38 1,111,748 70	\$19,151 16 1,194 22 887,028 73 94,123 69 144,729 00 46,089 44 9,024 10 28,921 05	\$36,351 17 11,184 66 35,190 99	1 2 3 4 5 6 7 8 9 10 11 12
2,838 00 95,299 01	1,131,985 91 1,979,188 38 2,427,578 61	1,749,686 26 1,749,586 26 2,427,578 61	1,041,799 87 1,414,509 69 2,285,979 52	90,186 04 885,176 57 191,599 09		13 14 15 16 17 18
30,200 01	2,495,782 90 184,657 44	2,197,881 28 184,657 44	330,296 25 2,148,078 02 116,460 25	51,803 26 18,197 19	\$30,298 26	19 20 21 22 28 24 25 26

## MICHIGAN RAILROAD RETURNS.

#### 8.—GROSS INCOME,—CONTINUED.

Line No.	Railroads.	Traffic Earnings (Table 7.)	Operating Receipts Other than for Traffic Earnings,	Total Receipts from Operation,
27	Lake Shore & Michigan Southern System  Detroit, Hillsdale & Southwestern  Detroit, Monroe & Toledo  Fort Wayne & Jackson  Kalamazoo, Allegan & Grand Rapids  Kalamazoo & White Pigeon  Northern Central Michigan	\$19,296,564 21	\$250,632 58	\$19,487,198 74
27 28 29 30	Detroit, Hillsdale & Southwestern			
29	Detroit, Monroe & Toledo			1
81	Kolomogoo Allegan & Grand Ravida			·····
82	Kalamazoo & White Pigeon			
82 83	Northern Central Michigan			
		1		
34	Lowell & Hastings. Manistee & Northeastern.	8,586 14 46,620 09	91 58 44 43	3,677 67 46,664 52
85 86	Manistique	40,020 08	44 40	44,685 99
97	Mason & Oceans	99,500 NO		39,599 80
37 38	Mason & Oceana. Michigan Air Line railway	152,640 45		152,640 45
39 40 41 42 43 44 45 46 47 48	Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line railroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	18,682,204 22	104,720 94	13,786,925 16
41	Detroit & Bay City	<b></b>		
42	Tackson Tanging & Society		-	
20	Kalamazoo & South Haven			
45	Michigan Air Line railroad			
46	Michigan Midland & Canada			
47	Saginaw Bay & Northwestern	<b></b>		
48	Toledo, Canada Southern & Detroit			
49				3,474,667 29
50	Milwaukee, Lake Shore & Western Milwaukee & Northern	1,226,604 81	4.427 02	1,231,031 33
51	Mineral Range	105,884 45	1 300 R1	1,231,031 33 109,775 06
52	Minneapolis, St. Paul & Sault Ste. Marie	1,628,294 59	28,117 72	1,651,412 11
58 54	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River	5,780 48	.	5,790 43
55			1	'
56	Springer Trecole & Huron	102,000 27 106,570 05	414 17	102,068 27 106,984 22
57	Saginaw, I uscola d Huron Saginaw Valley & St. Lonis	95,956 01	414 17 857 69	96.813 70
58	Saginaw & Grand Rapids			
59	Toledo, Ann Arbor & North Michigan.	958,029 78	61,277 20	1,014,306 98
60	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	91,870 24		91,870 24
61 62	Toledo & South Haven	24,182 98		24,182 98
62 63	Traverse City	b	·   <b></b>	1,807,983 87
AL I	Wisconsin Control	2 008 271 44	8 728 8Q	2,013,095 13
64 65	Wabash Wisconsin Central Detroit Union Railroad Depot & Station Co	2,000,011 44	6,723 69 127,752 71	127,752 71
		<del></del>	·	
	Total for commercial roads	<b>\$86</b> ,881,919 <b>4</b> 5	\$926,863 10	\$87,808,787 55
	ORE AND FOREST BOADS.	I		
1	Bear Lake & Eastern	10.708 61	! !	10,708 61
2	Buckley & Douglas	c		· ·
3	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River	14,785 86	1	14,735 86
5	Grass Lake & Manistee River	12,787 32		12,787 <b>32</b> 97,454 56
- !		i		31,2H 37
6 7	Hobart & Manistee River	82,281 78		82,281 78
7	Lake County	20,061 08		20,061 08
8	Lake County Manistee & Luther North Branch & Sauble River	187,388 23		20,061 08 137,388 23 12,389 44
"	TOTAL DIRECT & DRUDIO KIVOT	12,589 44		12,359 44
	Total for ore and forest roads	\$887,806 88		\$337,806 83
	Total for all roads	\$87,219,726 28	\$926,865 10	\$88,146,594 38

a Includes business of the Detroit Division only.
 b Included with Grand Rapids & Indiana Railroad.
 c Absorbed by the Manistee & Northeastern.

#### GROSS INCOME.—CONTINUED.

Sources Other than Operating.	Total Income, 1889.	Proportion for Michigan	Proportion f Michigan, 18			Decrease of Income, 1889	
\$382,541 49	\$19,869,788 23	\$4,693,222 1	6 \$4,800,547	36 \$392	2,674 80		
					·		
		<b></b>					
						1	
			_		<b>-</b>		- 1
. <b></b>	8,677 67	8,677 6		8	,677 67		
	46,664 52	46,664 5		40	664 52		
	44,685 99	44,685 9	9 31,597	29 1 18	,088 70		
	89,599 80	89,599 8	87,446	27   2	,158 58		-==-1
	152,640 45	152,640 4	5 165,599	98		\$12,959	48
38,984 91	13,825,860 07	9,310,061 4	7,558,239	86 1,751	,821 60		
				•	<del></del>		
· · · · · · · · · · · · · · · · · · ·							
·							
•••••					<del></del>		
15,293 98	3,489,961 22	546,001 5	8 478.327	00 67	674 58		
	1.231.031 33	234,728 2	9 199,466	64 85	261 65		
	109,775 06	234,728 2 109,775 0		58 10	,261 65 ,211 48 ,803 18		
	1,651,412 11	387,748 8		67   110	,803 18		
			,.				
••••••	5,780 48	5,730 4	8 4,844	14	886 29		
	102,068 27	102,068 2	7 108,867	57	- E0 - 00 -	1,799	30
456 00	106,984 22 97,269 70	106,984 2 97,289 7	2 92,415 0 108,984	10	,568 29	6,664	40
			'				
	1,014,306 98	996,648 4	687,579		,069 43		
· · · · · · · · · · · · · · · · · · ·	91,870 24	91,870 2	58,097	85   38	772 39		
	<b>24,182 9</b> 8	24,182 9	8 24,465	64	<b></b> .	282	66
	1 000 000 00	400 540 4					
100 100 00	1,807,983 87	426,518 1	2 851,494	88 70	,028 79		
497,409 23	2,510,504 86 127,752 71	80,548 00 127,752 7	128,663	80	,548 02	911	17
	127,752 71	121,152 1	1 128,003	!		. 911	11
\$1,089,887 96	\$88,848,672 51	\$88,668,990 33	\$29,889,098	95 \$4,260	,518 <b>4</b> 6	\$435,632	09
	10,708 61	10,708 6	9,040	60 1	,668 01		
			13,675	38		13,675	33
	14,735 86	14,735 8	12,100	85 2	,635 01		
	12,787 32	12,787 3	2 17,924		- 222 - 22-	5,186	77
	97,454 56	97,454 50	94,165	11 3	,289 45		
	82,281 73	82,281 7	87,062	68		4,780	90
	20,061 08	20,061 0	19,693	ZZ	367 86		
	137.388 23	137,388 2	118,748	os   18	,639 70		
	12,389 44	12,389 4			,389 44		
	\$887,806 88	<b>\$887,806</b> 88	\$ <b>\$322,4</b> 10	36 \$38	,989 47	\$28,598	00
							i

#### 9.-EXPENSES.

Line No.	Railroads.	Maintenance of Way and Buildings,	Maintenance of Motive Power and Cars,	Conducting Transportation,
1	Battle Creek & Sturgis	\$2,808 66	\$489 56	<b>\$3,936 9</b> 1
2 8 4 5	Battle Creek & Sturgis. Bay City & Battle Creek. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk. Chicago, Kalamasco & Saginaw. Chicago & Northwestern.	50,143 78 359,487 58	68,990 98 405,226 00 2,066 58	108,577 34 1,610,205 85 11,696 06
6			2,086 53 2,287,277 68	8,558,799 68
7 8 9 10 11 12	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cin., Jack & Mack., W. H. Brown, Receiver. Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwankee	271,772 96 97,988 28 16,890 75 106,148 57 51,795 87 184,887 13	200,835 02 61,490 11 10,585 53 49,308 53 15,296 29 111,783 47	496,771 13 205,266 61 85,974 73 156,675 90 188,358 66 434,485 04
13	Detroit, Lansing & Northern	175,222 78	1	1
14 15 16	Detroit, Lansing & Northern	207,892 28	144,774 49	687,516 95
17 18	Marquette & Western			
19 20	Flint & Pere Marquette	267,511 41	198,902 75	876,987 67
20 21 22 23 24 25 26	Port Huron & Northwestern Saginaw & Clare County			
28 24	Raginaw & Clare County			787,889 29
26 26	Hancock & Calumet	13,396 04	292,654 25 12,138 98	757,889 23 41,834 25
27 28	Lake Shore & Michigan Southern	2,775,565 70	2,478,981 35	6,199,425 22
27 28 29 80	Detroit, Monroe & Toledo			
31 32 38	Lake Shore & Michigan Southern  Detroit, Hilledale & Southwestern  Detroit, Monroe & Toledo  Fort Wayne & Jackson  Kalamazoo, Allegan & Grand Rapids  Kalamazoo, White Pigeon  Northern Central Michigan			
34 35 36 37	Lowell & Hastings Manistee & Northeastern Manistique Mason & Oceana Michigan Air Line Railway	9,687 13 278 02 8,313 88	126 24 3,699 32 2,928 50 10,014 07 10,314 95	4,973 66 24,483 07 19,815 84 20,141 22
88	Michigan Air Line Railway	52,617 92	10,314 95	62,905 17
89 40	Michigan Central Canada Southern Bridge	1,916,132 35	1,800,612 85	4,652,262 95
41 42	Detroit & Bay City Grand River Valley			
43 44 45	Michigan Central Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line Railroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit			
46 47	Michigan Midland & Canada			
48	Toledo, Canada Southern & Detroit			
49 50 51	Milwaukee, Lake Shore & Western Milwaukee & Northern Mingal Range	481,515 27 189,710 05 10 364 49	215,972 44 126,548 04 6,639 51	049 895 (4
52 58 54	Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana Ontonagon & Brule River	146,458 89 a 8,363 60	129,624 95 2,893 27	588,780 21 4,525 04
54 55			10,029 51	30,667 55
56 57 58	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	87,956 05 23,002 29 12,250 07	8,110 77 6,989 43	87,835 33 29,559 02
59	Toledo, Ann Arbor & North Michigan	188,926 86 27,860 43	100,885 45 10,002 08	353,819 94 47,012 38

a Included with the Grand Rapids & Indiana Railroad Company.

#### EXPENSES .- CONTINUED.

1	Decrease, 1889.	crease, 1889.	n	Same for Michiga Previous Year.	Proportion of Expenses and Taxes for Michigan.	Total Expenses and Taxes,	General Expenses, Including Taxes.
		\$8,208 23			\$8,208 23	\$8,208 23	\$1,083 10
1		8,314 87		\$999 001 09	287,306 70	287,906 70	14.594 70
		59,922 55		\$233,991 83 1,588,618 02	1 848 540 57	2.804.848.79	429,749 38
		4,584 65		12,914 84	17,448 99	17.448 99	3,366 40
	\$789 89			1,464,657 18	1,848,540 57 17,448 99 1,468,917 79	2,804,668 79 17,448 99 16,807,710 37	3,366 40 2,071,294 49
	26,096 24		۱	958,565 86	932,529 62	1.018.465 79	109,086 66
1		262 77 88,591 07	1	958,565 86 226,266 27	982,529 62 226,529 04	1,018,465 79 458,004 56	98,279 56 14,578 78
1		<b>8</b> 8,591 07	!	1	38,591 07 76,717 13	78,024 79	14,578 78
İ	7,064 79	1,407 14	!	75,809 99	76,717 18	877,613 73 290,791 87	65,485 98 85,850 58
	14,632 89	· · · · · · · · · · · · · · · · · · ·	3   : :	297,856 16 887,615 70	290,791 37 822,982 81	822,982 81	35,550 58 111,847 17
		96,293 52	•	720,680 50	808,924 02	806,924 02	124,289 88
ļ		26,806 62		912,353 95	1,089,160 57	1,161,515 28	171,881 56
		88,481 71		1,468,682 62	1,552,164 33	1,552,164 88	208,762 50
1	224,858 13	• • • • • • • • • • • • • • • • • • • •	;-	224,858 13	••••		
1	S24,505 13	••••••	·	424,505 13			
		·····					
	158,596 42	4,995 83		1,479,870 25 78,048 21	1,326,273 83 78,044 08	1,670,353 62 78,044 03	199,854 98 11,174 76
		40,154 40		2,605,461 50	8,145,615 90	12,847,451 57	1,398,479 30
1		· · · · · · · · · · · · · · · · · · ·			• • • • • • • • • • • • • • • • • • • •		
1		· · · · · · · · · · · · · · · · · · ·					
1							
1							
		5,099 90		1	5,099 90	5,099 90	
1		44,108 88			44,103 88	44,103 88	6,284 31
1		1,211 42	21	23,186 40	24,897 82	24,897 82	1,875 46
ı		2,762 51 2,576 40		36,455 59 127,997 95	39,218 10 130,574 35	39,218 10 180,574 85	748 98 4,796 81
1		•	- 1	I	·		· i
١		23,083 98	1	5,893,642 68	6,016,726 61	9,895,158 82	1,526,150 67
!							• • • • • • • • • • • • • • • • • • •
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.[							••••••
1		11,849 32	3	267,694 02	279,548 84	1,954,208 97	312,881 22
1		20,891 31	:	139,146 06 59,596 72	160,087 <b>3</b> 7 61,930 23	888,852 01 61,930 28	149,077 18
		2,838 51 58,572 87		125,884 85	279,406 72	1,063,066 75	15,060 88 198,202 70
		5,768 08		5,329 41	11,092 44	11,092 44	810 58
1		•	1	1	· ·	·	-
	1 1			90,271.86	91,831 66	91,881 66	18,178 55
		1,559 80	: 1	70 804 44		77 000 44	0 201 04
	2,508 14 22,033 85	1,559 80		90,271 86 79,537 55 79,991 97	77,029 41 57,958 62	77,029 41 57,958 62	8,581 02 9,210 10
	2,508 14 22,033 85	1,559 80 31,606 83		79,587 55 79,991 97 424,715 92	77,029 41 57,958 62 656,322 75	77,029 41 57,958 62 668,130 69	8,581 02

b Absorbed by the Manistee & Northeastern.

#### 9.—EXPENSES.—CONTINUED.

Line No.	. * Railroads.	Maintenance of Way and Buildings.	Maintenance of Motive Power and Cars.	Conducting Transportation
61	Toledo & South Haven	\$2,939 23	\$546 84	\$8,605 90
62 68 64 65	Traverse City. Wabash. Wisconsin Central. Detroit Union Railroad Depot & Station Co	1,539,819 07 227,343 00	1,235,681 96 193,001 96	3,40 <b>3,436</b> 85 606,410 92
	Total for commercial roads	\$18,270,754 01	\$10,292,172 43	\$31,945,980 83
1 2	Bear Lake & Eastern	1,384 99 b	1	3,562 24
8 4 5	Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake	7,520 52 6,681 29	1,552 18	4,126 94 4,063 44 80,987 29
6 7 8 9	Hobart & Manistee River Lake County Manistee & Luther North Branch & Sauble River	2,600 00 11,246 21	3,078 17 2,093 48 20,015 28	15,390 86 11,253 29 35,349 38 9,163 29
	Total for ore and forest roads	<b>\$54,456</b> 78	\$29,733 80	. \$163,896 73
	Total for all roads	\$13,825,210 77	\$10,321,906 28	<b>\$3</b> 2,109,857 <b>56</b>

#### 10.-ANALYSIS OF EARNINGS AND EXPENSES.

			Traffic Earnings.			
χο.	Railroads.	Miles of Road Operated,	Total.	Per Train		
Line			1000.	Passenger.	Freight,	
1 2	Battle Creek & Sturgis Bay City & Battle Creek	1	\$19,151 16	0.28.60	0.28.11	
3 4 5 6	Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Northwestern Chicago & Northwestern	59.37 835.27 35.66		0.55 0.92 No 1.10.17	0.37 1.13 report, 1.40.69	
7 8 9 10 11 12	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cin., Jackson & Mack.—W. H. Brown, Rec. Cin. Jackson & Mack.—W. H. Brown, Rec. Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwankee	348,10 b 164,40 209,32	534,052 59	0.74	1.63 0.91 1.03 1.38 0.99 1.50	
13 14	Detroit, Lansing & Northern	323.68	1,121,418 86	0.80	1.35	
15 16 17 18	Saginaw & Western Duluth, South Shore & Atlantic. Marquette, Houghton & Ontonagon. Marquette & Western.	577.77	1.983.026 99	0.98	1.17	
19 20 21 22	Flint & Pere Marquette  Manistee Port Huron & Northwestern  Scriver & Clear County				1.32	
28 24 25 26	Saginaw & Clare County Suginaw & Mt. Pleasant Frankfort & Southeastern Grand Rapids & Indiana Hancock & Calumet	22. 556.94		1.00	1.52 1.79	

b For two months only.

#### EXPENSES.—CONTINUED.

General Expenses, Including Taxes,	Total Expenses and Taxes,	Proportion of Expenses and Taxes for Michigan,	Same for Michigan Previous Year,	Increase, 1889,	Decrease, 1889.	Line No.
\$2,151 84	\$14,248 8	\$14,248 81	\$12,946 54	\$1,298 77		61 62 63
1,151,601 76 257,729 10 40,546 87	7,390,539 6 1,874,484 9 40,546 8	8 54,520 59		88,759 65 54,520 59 8,138 68		65 64 65
\$8,840,848 57	\$64,849,785 8	\$22,390,189 71	\$20,928,478 40	\$1,918,165 66	\$451,469 85	
191 56	5,962 9	7 5,962 97	4,588 71 24,415 10	1,879 26	24,415 10	1
719 74 1,505 75 2,524 95	14,587 7 13,902 6 97,454 5	8 13,802 66	7,062 88 12,746 46	7,475 88 1,056 20 3,289 85		8
1,281 27 8,214 31 7,644 24	30,781 7 19,161 0 74,255 1 9,163 2	9 19,161 00 1 74,255 11	20,198 22 57,343 68	16,911 48 9,163 29	6,008 88 1,082 14	8
\$17,081 82	\$265,119 1	\$265,119 11	\$257,294 77	\$39,274 96	\$31,450 62	
\$8,857,880 39	\$64,614,854 9	5 \$22,655.308 8	\$21,185,768 17	\$1,952,460 62	\$482,919 97	

## ANALYSIS OF EARNINGS AND EXPENSES.—CONTINUED.

Traffic I	Carnings.	Ор	erating E	xpenses.		Net per Opera			Net	
Mile.	Per Mile of Road	Total.	Per Mile	Per Train	Percent-	<u> </u>		Net Earnings, Per Train Mile.	Deficit Per Train	No.
Total.	Operated,	Total,	Operated.	Mile.	Earnings.	Surplus,	Deficit,		Mile.	Line
0.58.71	\$226 55	\$8,208 28	\$197 78	\$0.47	87.18	\$25 27		\$0.15		1 2
0.98 1.06	4,211 37 11,128 85 482 75	287,806 70 2,804,668 79 17,448 99	3,977 08 8,365 40 480 81	0.89 0.80	94.91 75.14 50.20	214 29 2,768 24 475 98		0.04 0,26		8
1.30.46	6,104 18	16,307,710 87	3,836 76	0.82	62.28	3,223 98		0.49.67		5 6
1.17 0.73 0.87	3,363 45 1,510 29 272 66	1,018.465 79 458,004 56 78,024 79	2,498 79 1,815 72 224 14	0.87 0.63 0.71	74.08 86.67 82.15	872 59 202 42 48 70		0.80 0.10 0.16		8 9
1.00 0.89 1.15	8,248 55 2,892 62 5,689 28	377,613 78 290,791 37 822,982 81	2,296 92 1,428 04 4,854 40	0.71.24 0.58 0.89	70.70 59.91 76.44	951 63 964 58 1,341 96		0.29.52 0.86 0.27		10 11 12
1.08	8,464 58	806,924 02	2,492 96	0.74	71.28	1,004 27		0.30	<b>-</b>	13 14
1.10	3,345 67	1,161,515 28	2,010 34	0.66.70	59.90	1,410 31		0.46.70		15 16 17
1.87	3,732 01	1,552,164 83	2,483 01	1.24	66.55	1,248 50		0.63		18 19 20
										21 22
1.28 1.53	5,245 09 6,589 57	1,670,353 62 78,044 08	8,543 84 3,833 20	0.86 0.89	66.92.8 58	1,751 18 2,780 61		0.43 0.64		28 24 25 26

## MICHIGAN RAILROAD RETURNS.

#### 10.-ANALYSIS OF EARNINGS AND EXPENSES.-CONTINUED.

İ			Traffi	c Earnings.		
Ž	Railroads.	Miles of Road Operated,	Total.	Per Train		
Line			1020	Passenger,	Freight.	
27 28 29 80 31 82 83	Lake Shore & Michigan Southern Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Bapids Kalamazoo & White Pigeon Northern Central Michigan	1,409.55	\$19,236,564 21	1.69.40	1.71.90	
29	Detroit, Monroe & Toledo					
80	Fort Wayne & Jackson					
31	Kalamazoo, Allegan & Grand Rapids	j				
33	Northern Central Michigan					
34 85 36 37 88	Lowell & Hastings		3,586 14 46,620 09 44,685 99 39,599 80	No 0.74.60	report, 1,50,6	
36	Manistique	40.75	44,685 99	No	report.	
37	Mason & Oceana Michigan Air Line Railway	34.00 105.60	89,599 80 152,640 45	0.31.09 0.22	1.00 0.59	
		ł	· ·			
39	Michigan Central System Canada Southern Bridge	1,556.47	13,682,204 22	1.30	1.47	
40	Detroit & Ray City					
41	Grand River Valley	<i></i>				
43 44	Jackson, Lansing & Saginaw					
44	Kalamazoo & South Haven					
45 46 47	Michigan Midland & Canada					
47	Saginaw Bay & Northwestern					
48	Canada Sonthern Bridge Detroit & Bay City. Grand River Valley. Jackson, Lansing & Saginaw. Kalamazoo & South Haven. Michigan Air Line R. R. Michigan Midland & Canada. Saginaw Bay & Northwestern. Toledo, Canada Southern & Detroit.					
49			9 474 667 90	0.78.60	1.83	
50	Milwaukee, Lake Shore & Western Milwaukee & Northern	320.45	1,226,604 81	0.73	1.93.50	
51 52	Mineral Range	17.00 799.85	105,384 45 1,628,294 89	1.02 0.70	1.75 1.40	
58 54	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana	a	l	0.70	1.40	
54	Ontonagon & Bruie hiver	40.10	5,730 43	No	report,	
55	Ponting Oxford & Northern	100.20	102,000 27	0.50	1.14	
55 56 57 58	Saginaw. Tuscola & Huron	66.57	106,570 05	0.49	1.09	
57	Saginaw Valley & St Louis	45.10	95,956 01	0.89	1.52	
58 59	Baginaw & Grand Hapids)	823.20	953,029 78	0.76.45	1.65	
80	Pontiac, Oxford & Northern	96.00	91.870 24	0.39	1.00	
61	Toledo & South Haven	86.60	24,182 98	0.51.35	0,50,10	
62	Traverse City	337.30				
63 64	Wabaan	346,29	1.807,983 87 2,006,371 44	0.58.62 0.74.77	1.27.60 1.59	
65	Wabash Wisconsin Central Detroit Union R. R. Depot & Station Co	010,22				
	Total commercial roads.	14,576.87	\$86,881,919 45	1.04.04	1.32.55	
1	ORE AND FOREST ROADS.	18.00	10,708 61	0.02.13	0.02.65	
2	Bear Lake & Eastern Backley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake	10.00	l		i	
3	Crawford & Manistee River	13.00	14,735 86		1.54.66	
5	Hacla & Torch Lake	13.50 7.50	12,787 82 97,454 56		0.72.03	
- 1		li .				
6	Hobart & Manistee River.	9.24	82,281 73		2.C1	
7	Lake ('ounty Manistee & Luther	11.00 64.00	20,061 08 137,388 23		!	
ğ	North Branch & Sauble River	10.00	12,389 44			
	Total ore and forest roads	146.24	\$387,906 83	0.02.13	0 08.52.6	
				.		
	Total for all roads	14,722.61	\$87,219,726 28	1.04.04	1.33.02	

a Included with Grand Rapids & Indiana.

## ANALYSIS OF EARNINGS AND FXPENSES.—CONTINUED.

Trame .	Earnings.	Ор	erating E	xpenses.		Net per Opera		Net	Net	
Mile,	Per Mile of Road	Total.	Per Mile of Road	Per Train	Percent-	2	D. 4.11	Earnings per Train Mile,	Deficit per Train Mile.	
Total.	Operated,		Operated,	Mile.	Earnings.	Surplus,	Deficit,		mine,	
1.71	18,647 81	\$12,847,451 57	9,114 57	1.14.20	65.93	4,710 55		0.59		
· · · · · · · · · · · · · · · · · · ·										.1 :
										:
0.21	298 84	5,099 90	424 90		142		\$126 06			13
1.07	1,942 50	44,108 88 94 907 89	1,837 66	1.01.78	94.60 54.60	104 84 497 87		0.58.08 0.34		
0.74 0.74	1,084 76 1,466 66	24,397 82 39,218 10 130,574 35	598 72 1,452 52	0.41 0.78	99	14 14		0.01		
0.81	1,445 45	130,574 35	1,286 50	0 69	85.54	208 96		0.12		1
1.40	8,790 54	9,895,158 82	6,357 44	1.01	71.77	2,500 38		0.40		.   :
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1.45	5,023 01	1,954,203 97	2,825 07	0.81.70	56.24	2,197 93	ļ 	0.63.54		. -
1.31 1.41	3,851 79 6,199 08	838,852 01 61,930 23	2,634 36 3,642 95	0.89.50 0.88	68.14 56	1,231 53 2,814 30		0.42		
1.14	2.029 49	1,063,066 75	1,329 08	0.75	64.30	785 77		0.41		
	124 30	11,092 44	240 62	No	report,	·•	240 62		<b></b>	
		1					-10 02			ì
0.72.19 0.73	1,020 00	91,881 66 77,029 41	918 32 1.157 11	0.65 0.53.20	89.96 72	102 37 449 97	¦	0.07.25 0.20.70		
1.10	2,127 63	57,958 62	1,285 11	0.67	59.86	861 53		0.44		
1.24.50	3,318 34	668,130 69	2,326 36	0.87.20	65.87	1,205 85		0 45.23		
0.52	956 98	89,893 96	936 40	0.51	97.85	20 58		0.01		
0.51.09	660 74	14,248 81	880 92	0.30.09	58.07	279 82	<b></b>	0.21.09		
1.20.50	6,778 76		5,002 07	0.88.97	78.78	1,776 79		0.31.53		.1 (
1.13	5,792 24	1,874,484 98	3,968 02	0.81	68	1,848 50		0.37	'	
										1-
1.21.74	5,960 46	\$64,349,785 84	4,414 66	0.93.94	74.05	1,545 80		0.27.80	ı	
0.00.00										
0.26.80	594 92	5,962 97	331 27	1.49	55	268 €4		1.18		1
1.54.66	1,478 59	14,537 71	1,458 77	1.54.66	98.66	19 81		0.28		1
0.72.03 2.00	1,065 61 12,993 94	13,802 66 97,454 56	1,150 22 12,993 94	0.78.10	1.08 2.00	100 00	84 61	!. <b></b>	05.10	1
	1	I	1			1				
2.01	3,498 69	80,781 73	3,331 26	1.92	95.34	162 43 81 82		0.09		-
	1,823 73 2,146 69	19,161 08 74,255 11	1,741 91 1,160 23		95 54	986 48				
	1,238 94	9,163 29	916 33		73.96	322 61				-
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0.85.26	2,309 95	<b>\$26</b> 5,119 11	1,812 90	<b></b>	78.45	497 05	<b>-</b>			
1.22.19	5,924 22	\$64,614,854 95	4.888 81		74.08	1,585 41				1-

## 11.—TRAIN MILEAGE AND TRAFFIC.

			Train Mileage.				
Line No.	Railroads.	Passenger Trains, Miles,	Freight Trains, Miles.	Total for Trains Earn- ing Revenue.			
1	Battle Creek & Sturgis		17,220	17, <del>22</del> 0			
1 2 3 4	Battle Creek & Sturgis Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago & Northwestern	145,282 1,178,884	122,646 2,854,814	267,878 3,528,648			
5 6	Chicago & Northwestern.	6,669,722	18,218,048	19,887,770			
7 8 9 10 11 12	Chicago & Weet Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Jackson & MackinawW. H. Brown, Rec Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee	669,108 828,704 42,664 809,762 66,150 457,918	500,908 \$90,265 65,85\$ 220,287 482,178 486,240	1,170,011 718,969 108,517 530,029 548,328 924,158			
18 14			448,102	1,092,197			
15 16 17 18	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit. Saginaw & Western Duluth, South Shore & Atlantic. Marquette, Houghton & Ontonagon Marquette & Western	519,971	1,222,782	1,742,753			
	Flint & Pere Marquette	148,184	1,100,954	1,249,138			
19 20 21 22 23 24 25 26	Flint & Pere Marquette  Manistee Port Huron & Northwestern Saginaw & Clare County. Saginaw & Mt. Pleasant Frankfort & Southeastern Grand Rapids & Indiana Hancock & Calumet						
	Frankfort & Southeastern Grand Rapids & Indiana Hancock & Calumet	898,046 22,447	1,034,725 64,868	1,934,771 87,815			
27 28 29	Lake Shore & Michigan Southern Detroit, Hillsdale & Southwestern	8,947,496	7,298,395	11,245,991			
30 81 82	Lake Shore & Michigan Southern Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan						
83	Northern Central Michigan						
84 85 86 87	Lowell & Hastings. Manistee & Northeastern. Manistique Mason & Oceana Michigan Air Line railway.	24,545	60,000 33,650	43,825 60,000 53,860			
38	Michigan Air Line railway	67,192	120,204	101,110			
89 40 41	Michigan Central. Canada Southern Bridge. Detroit & Bay City	3,908,281	5,946,385	9,754,666			
41 42 48 44 45 46 47	Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven						
45 46 47 48	Michigan Central. Canada Southern Bridge. Detroit & Bay City Grand River Valley. Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Lane railroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit.						
49 50	Milamorbas Talas Obasa & Wastern	000 087	1 204 710	2,892,775 936,830			
51 52 58 54	Milwaukee & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie. Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River	34,680 507,202	1,526,718 457,892 89,884 921,627	74,514 1,428,829			
55 56 57 58	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon		76,737 58,583 28,762	141,285 144,787 87,287			
59 60	Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	849,251 108,687	416,177 71,898	765, 428 175,090			

a Included with G. R. & I.

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## TRAIN MILEAGE AND TRAFFIC.—CONTINUED.

		Passe	nger Traffic.		
rough sengers, imber.	Local Passengers, Number.	Total Passengers, Number,	Total Passengers Previous Year, Number.	Passengers Carried 1 Mile, Number.	Passengers Carried 1 Mile Previous Year, Number.
29,262 113,949	179,389 720,298	208,601 884,247	175,655 780,627	4,8 <b>27,6</b> 20 59,120,053	5,089,948 60,548,518
51,996	11,845,887	11,897,883	11,052,836	284,440,589	275,296,256
4,462 81,795 2,586	674,608 245,525 45,582 840,644	679,070 277,320 48,168	687,679 809,918	22,849,720 6,188,915 891,241	19,667,587 6,760, <b>304</b>
1,720	840,644	342.864	885,914	8,560,949	8,181,186
4,251	113,764 591,851	113,764 596,102	120,496 680,101	8,564,486 18,189,565	8,485,688 19,591,844
15,118	680,785	695,858	621,956	18,400,090	16,758,611
39,353	812,579	851,982	337,344	18,720,911	11,339,702
16,714	1,145,165	1,161,879	996,851	81,182,098	25,119,905
			224,875		6,685,428
58,488	1 091 400	1 074 999	1 100 901	99 674 400	99 709 841
	1,021,400 55,779	1,074,883 55,779	1.109,281 56,157	32,874,488 885,509	38,708,641 459,010
104,474	4,809,118	4,418,592	4,051,704	222,555,555	210,107,098
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· <b>···</b>					
84	90 709	90.01#		220 000	<b></b>
34	39,782	39,816 1,004		12.048	
	1,004 10,670	10,670	9,480	660,388 12,048 149,380	150,880
55	83,343	83,398	85,245	1,106,959	1,264,625
113,827	8,044,546	. 3,158,873	8,007,801	187,646,148	185,214,984
				• • • • • • • • • • • • • • • • • • • •	
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30,487 21,215	516,888	547,275	505,546 270,836 107,145 117,872	22,273,484 11,287,635 857,519 12,083,280	20,996,318 10,046,721
21,215	284,401 115,924 164,646	305,616 115,924	270,836	11,287,635	10,046,721
31,286	110,024 181 818	195,882	117 872	12 023 240	4,404,621
	401,010	100,032			*,************************************
		_,			4
740	78,622	74,362 72,778	77,518 69,697	1,505,836	1,560,917
3,502 902	78,622 69,271 97,525	72,773 98,427	69,697 106,245	1,505,8 <b>36</b> 1,774,645 1,798,585	1,560,917 1,744,008 1,988,950
			10/ 107	0.180.088	6,564,268
211 1,981	244,408 52,722	24!,614	194,187 . 18,425	8,159,255 1,072, <b>6</b> 01	389,223

## MICHIGAN RAILROAD RETURNS.

## 11.-TRAIN MILEAGE AND TRAFFIC.-CONTINUED.

ا ہ		Train Mileage.				
Line No.	Railroads.	Passenger Trains, Miles,	Freight Trains, Miles.	Total for Trains Earn- ing Revenue.		
61 62	Toledo & South Haven	28,404	18,986	47,340		
68 64 65	Wabash Wisconsin Central Detroit Union Bailroad Depot & Station Company	3,306,876 827,836	4,982,961 869,045	8,239,237 1,696.881		
	Total for commercial roads	26,675,694	44,606,849	71.282,345		
1 2	Bear Lake & Eastern			4,000		
8	Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River	1	9,520	9,520 17,680		
5 6 7 8	Heela & Torch Lake Hobart & Manistee River Lake County Manistee & Luther		16,000	48,465 16,600		
	Total for ore and forest roads		95,665	95,665		
	Total for all roads.	26,675,694	44,702,514	71,378,208		

#### 11A.-TRAFFIC.

			Pas	senger Travel
Line No.	BAILROADS.	Average dis- tance traveled by each Passenger, Miles.	Average Fare paid by each Passenger.	Average Through Bate per Mile,
1 2 8 4 5	Battle Creek & Sturgis Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago & Northweetern	23.14 70.90		\$0 02.50 0 01.49
6 7 8 9 10 11 12	Chicago & Northwestern  Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Jackson & Mackinaw—W. H. Brown, Rec. Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwankee	35.55 22.13 18.50 25.	0 54 0 78 0 50 0 47 0 60.30 0 28 78	0 02.41 0 01.38 0 01.98 0 02.670 0 02.
13 14 15 16 17 18	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit	26.442		1
19 20 21 22 23 24 25 26	Flint & Pere Marquette.  Manistee. Port Huron & Northwestern. Saginaw & Clare County. Saginaw & Mt. Pleasant. Frankfort & Southeastern. Grand Rapida & Indiana. Hancock & Calumet.	30,58	0 78	

#### TRAIN MILEAGE AND TRAFFIC.—CONTINUED.

		Passen	ger Traffic.			
Through Passengers, Number.	Local Passengers, Number.	Total Passengers, Number.	Total Passengers Previous Year, Number,	Passengers Carried 1 Mile, Number,	Passengers Carried 1 Mile Previous Year, Number.	
	87,410	37,410	38,708	408,906	508,856	
	2,174,065 1,169,961	2,174,065 1,169,981	1,351,607	109,667,067 51,449,644	79,987,962	
673,253	30,461,907	81,185,160	27,891,098	1,139,514,474	1,017,495,899	-
·····	890	890		13,850		
	•			18,850		
673,258	30,462,797	81,136,050	27,391,098	1,139,527,824	1,017,495,399	-

#### TRAFFIC .- CONTINUED.

and Rates.			Freight Mo	vements.		
Average Local Rate per Mile,	Average Rate per Mile for all Passengers,	Tons of Through Freight moved, Number.	Tons of Local Freight moved. Number,	Total Tons of Freight moved, Number,	Total Tons of Freight moved previous year, Number,	Line No.
						1
\$0 02.75 0 02.18	\$0 02.66 0 01.72	93,460 1,054,877	221,179 696,319	814,639 1,741,196	368,167 1,486,903	2 2 2
0 02.28	0 02.24	313,961	11,566,216	11,880,177	11,107,068	1 6
0 02.99 0 02.86 0 02.570	0 02.18 0 02.26 0 02.580	9,184 184,082 48,496	874,708 896,635 60,137	883,892 582,717 108,633	936,270 591,750	10 10
0 02.40 0 02.49 0 02.39	0 02.40 0 02.49 0 02.38	44,624 87,925	390,308 871,763 470,950	874,927 871,768 567,875	396,830 498,547 577,671	10
0 02.55	0 02.50	47,141	439,483	486,624	453,855	13 14 15
0 08.00	0 03.30	1,712,672	842,785	2,055,457	1,417,479	15 16 17 18
0 02.497	0 02.492	133,968	1,462,920	1,596,188	1,574,002 ·	19
					90,299	20 21 22
						21 22 28 24
0 02.409 0 04.40	0 02.417 0 04.40	155,707	1,630,867 616,493	1,786,574 616,4 <b>93</b>	1,665,157 516,877	25 26

#### 11A.—TRAFFIC.—CONTINUED.

			Pas	senger Travel
Line No.	Railroads.	Average dis- tance traveled by each Passenger, Miles.	Average Pare paid by each Passenger,	Average Through Rate per Mile.
27 28	Lake Shore & Michigan Southern SystemDetroit, Hillsdale & Southwestern	50.50	<b>\$1 15</b>	<b>\$0 02.168</b> -
27 28 29 30 31 82 83	Lake Shore & Michigan Southern System Detroit, Hilledale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan			
84 85 86 87 88	Lowell & Hastings Manistee & Northeastern Manistique Mason & Oceana Michigan Air Line Railway	16.57 12.	0 25.90 0 48 0 47	0 02.78
39	Michigan Air Line Railway  Michigan Central System	18.27 59.41	0 88.05 1 87	0 02.50 0 01.98
40 41 42 48 44 45 46 47 48	Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamasoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit			
49 50 51 52 58 54	Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana Ontonagon & Brule River	40.70	1 07 1 01 0 28.88 1 57	0 02.546- 0 02.58 0 02.18
55 56 57 58 59	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon		0 50.45 0 58 0 49.12	0 01. <b>3</b> 8 0 02.782 0 02.81
59 60	Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	83.85 19.60	0 <b>92.61</b> 0 51	0 02.47 0 02.07
61 62	Toledo & South Haven Traverse City	10.99	0 828	0 08.
63 64 65	Wabash. Wisconsin Central Detroit, Union R. R. Depot & Station Co	50.10 43.98	1 11.08 0 90.70	
	Total commercial roads.  ORE AND FOREST ECADS.	30.63	0 75.42	
1 2 8 4 5	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake.		•••••••	
5 7 8 9	Hobart & Manistee River			
-	Total ore and forest roads			
-	Total for all roads.	30.68	0 75.41	

a Included with G. R. & I.

#### TRAFFIC.—CONTINUED.

nd Rates.		Freight Movements.					
Average Local Rate per Mile,	Average Rate per Mile for all Passengers,	Tons of Through Freight moved. Number.	Tons of Local Freight moved, Number,	Total Tons of Freight moved Number,	Total Tons of Freight moved previous year, Number,		
<b>\$</b> 0 02.828	<b>\$</b> 0 02.284	1,237,110	8,783,489	10,020,599	9,069,857		
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•••••							
0 02.73	0 02.78		117,040	117,040			
0 04.	0 04.		139,000 70,600	139,090	108,450		
0 08. 0 02.90	0 08. 0 02.89	13,394	182,908	139,090 70,600 196,802	65,307 246,414		
0 02.42	0 02.81	1,427,679	4,872,269	6,299,948	6,281,421		
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0 02.687	0 02.673	1,022,183	1,828,352 258,586 115,520	2,845.535	2,120,836 542,787 93,759		
0 02.80	0 02.74	431,278	258,586	689,859 115,520	542,787		
0 08.90	0 03.90		115,520	115,520	98,759		
0 02.94	0 02.54	177,268	670,602	847,865	815,442		
0 02.55 0 02.047 0 02.68	0 02.49 0 02.201 0 02.68	2,902 8,165 1,947	52,510 82,825 55,768	55,412 85,990 57,715	61,489 66,984 62,166		
0 02.047	0 02.201	8,165	82,825	85,990	66,984		
0 02.68	0 02.68	1,947	55,768	57,715	62,166		
0 02.77	0 02.77	48,841	816,935	863,776	652,940		
0 02.73	0 02.62	16,295	61,857	78,152	22,467		
0 03.	0 03.		11,673	11,673	10,522		
	0 02.20		4,754,790	4,754,790	2,799,733		
	0 02.08		2,142,503	2,142,508			
	0 02.48	8,266,149	44,994,065	53,280,214	44,078,949		
					45,910 342,285 83,700		
• <b>-•</b>		·	60,752 46,290 921,900	80,752 48,290	342,285		
			921,900	46,230 921,900	869,500		
			i		1		
•••••			103,300 80,244	108,300	118,740 78,773		
<b></b>			80,244	80,244	78,773		
<b></b>			96,624	96,624			
			1,309,050	1,309,050	1,488,908		
				<u> </u>			
	0 02.43	8,266,149	46,308,115	54,569,264	45,567,857		

# 1 t B.—TRAFFIC.—CONTINUED. Freights.

			Mile	eage.	
Line No.	Railroads.	Through Freight,	Local Freight,	Total or Tons Moved One Mile,	Moved One Mile Previous Year,
1	Battle Creak & Sturgis				
1 2 8 4 5	Battle Creek & Sturgis. Bay City & Battle Creek. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk. Chicago & Kalamasoo & Saginaw. Chicago & Northwestern.	5,514,140 348,763,316 No report.	5,124,870 88,159,599	10,6 <b>39</b> ,010 <b>436</b> ,922,915	12,215,610 874,961,777
<b>5</b>	Chicago & Northwestern	130,810,745	1,686,848,085	1,817,658,830	1,911,951,168
7 8 9 10 11	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cin., Jack, & Mack., W. H. Brown, Rec. Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee	1,274,455 12,066,679 3,178,720 7,186,497	57,166,582 29,665,520 5,260,833 14,745,542 29,399,429	58,441,087 41,782,199 8,484,558 21,981,889 29,899,429	60,125,433 88,139,450 20,659,357 17,539,144 48,335,342
12		16,617,696 7,823,722	28,030,425 32,600,399	44,648,111 39,924,121	48,335,342 36,837,668
18 14	Detroit, Lansing & Northern	1,020,122	32,000,388	39,822,161	30,031,000
15 16 17 18	Saginaw & Western Duluth, South Shore & Atlantic Marquette, Houghton & Ontonagon Marquette & Western	74,089,708	19,665,597	93,705,300	62,183,902
	Flint & Pere Marquette	24,986,378	108,062,505	183,048,878	125,797,758-
20 21	Port Huron & Northwestern				5,247,842.
28	Saginaw & Mt. Pleasant				
19 20 21 22 23 24 25 26	Flint & Pere Marquette.  Manistee Port Huron & Northwestern Saginaw & Clare County. Saginaw & Mt. Pleasant Frankfort & Boutheastern Grand Rapids & Indiana. Hancock & Calumet.	11,017,248		155,021,740 4,865,089	154,119,072 8,060,879
27 28 29 30 81	Lake Shore & Michigan Southern.  Detroit, Hillsdale & Southwestern.  Detroit, Monroe & Toledo.  Fort Wayne & Jackson.  Kalamazoo, Allegan & Grand Rapids.  Kalamazoo & White Pigeon.  Northern Central Michigan.		1,317,558,554	1,859,009,822	1,799,104,045
29 30	Fort Wayne & Jackson				
32 88	Kalamazoo & White Pigeon				
84			007 046	077 044	
35 36	Lowell & Hastings Manistee & Northeastern Manistique		977,846 1,420,658 1,412,000 9,002,224	977,846 1,420,658	768,189
37 88	Mason & Oceana Michigan Air Line Railway	1,420,078	9,002,224	1,412,000 10,422,302	1,329,447 12,639,868
89 40	Michigan Central Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line Railroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	620,958,780		1,203,120,219	1,279,412,576
40 41 42	Detroit & Bay City Grand River Valley				
48 44	Jackson, Lansing & Saginaw				
45	Michigan Air Line Railroad				
48 44 45 46 47 48	Saginaw Bay & Northwestern				
49		161,060,058	102,984,890	264,044,948	191,086,049
50 51	Milwaukee, Lake Shore & Western	5.4 582 979	18,541,064 817,990	73,103,942 817,990	64,279,254 782,285
52	Minneapolis, St. Paul & Sault Ste. Marie		181,400,365	181,400,365	75,682,156
58 54	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana Ontonagon & Brule River				
55	Pontiac, Oxford & Northern	290,200	2,035,882	2,326,082	2,446,609 2,890,663
55 56 57 58 59	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	212,098 87,401	8,415,435 1,312,846	8,627,538 1,899,747	2,890,003 1,581,980
58 59	Toledo, Ann Arbor & North Michigan	7,700,111	57,198,439 2,049,790	64,898,550	89,524,777
60	Tolego, Baginaw & Muskegon	1,564,820	2,049,790	3,614,110	878,655

a Included with Grand Rapids & Indiana.

# TRAFFIC.—Continued. Freights.

Miles   Miles   Miles   Each Ton   Haul   Through   Local   Local   Per Mile   Previous Year				Rates.				Ton Haul.	
\$30.6   128.5   250.9   1.50   00.32   00.91   00.60   00.97    \$417	per Mil	Average Ton per Previo Year	per Mile.	per Mile.	per Mile,	Amount Each Ton			Through Miles.
\$30.6   128.5   250.9   1.50   00.32   00.91   00.60   00.97    \$417									
189	.879 .87	\$0 02 00	00.60	00.91	00.52	1.50	250.9	128.5	830.6
165	.97	Ō(				•	l	•	417
189		I	01.408 00.81 00.75	01.586 00.84 00.79	00.924 00.78 00.68	0.58	66 71.6 77.6	65 74.4 87.4	65.5 65.4
185 74 82 1.23 01.010 01.619 01.507 01.528  48.250 57.57 45.58 0.89 01.60 01.30 01.50 01.50  187 74 83 0.90.80 00.607 01.201 01.089 01.109  70.78 88.50 7.59 7.69 0.18.84 00.972 00.992 00.991 00.665 04.80 0.855 0.24.15 0.28 02.88 04.80 00.684 00.686 00.684 00.686 00.68	.Z/U	, oi	01.30	01.80		0.48	38.70	83.70	
187 74 83 0.90.80 00.607 01.201 01.069 01.109		1		ì				1	1
187 74 83 0.90.80 00.607 01.201 01.069 01.109				01.60	01.80	0.00	4F EQ	K7 07	40.000
70.78	 				01.00	60.0	49,98		48,230
70.78         88.30         96.77         0.96         00.972         00.992         00.991         00.963           487.7         150         185.5         1.23.11         00.601         00.689         00.664         00.696           8.85         8.85         0.24.15         0.288         0.288         0.288         0.40           10.21         10.21         9.82         0.3         0.8         0.4         0.5           105         49         58         0.56.2         00.80         01.10         01         00.99           485         119         191         1.98         00.559         00.904         00.726         00.694           157.5         7.08         7.08         0.60.24         0.911         02.018         01.192         01.213           128.50         71.70         1.06         0.60.24         0.911         02.018         01.192         01.216           7.08         7.08         7.08         0.60.24         0.911         02.018         01.192         01.216           100         38.8         42         1.04         01.25         02.58         02.42         02.89           67         41         42	.102	01	01.089	01.201	00,607	0.90.80	83	74	187
7.89 7.89 0.18.84 02.88 02.88 04.80 00.684 00.686 00.686 00.684 00.686 00.686 00.686 00.686 00.688 0	.45	02							
7.89 7.89 0.18.84 02.88 02.88 04.80 00.684 00.686 00.686 00.684 00.686 00.686 00.686 00.686 00.688 0			•••••••						
8.35 8.35 0.24.15 03 08 04 04 02.88 02.88 02.89 04 04 00.728 00.80 01.10 01 00.99 01.550 071.70 1.08 1.28 00.91 02.018 01.192 01.218 02.81 02.91	).969 L.80	00			00.972	0.86 0.18.84	86.77 7.89	88.30 7.89	70.78
10,21 10,21 10,21 10,21 10,22	.636	O	00.664	00.689	00.601	1,23.11	185.5	150	487.7
10,21 10,21 10,21 10,21 10,22								• • • • • • • • • • • • • • • • • • • •	
10,21 10,21 10,21 10,21 10,22								• • • • • • • • • • • • • • • • • • • •	
10,21 10,21 10,21 10,21 10,22				-					
10,21 10,21 10,21 10,21 10,22						************			
10,21 10,21 10,21 10,21 10,22			02.88	02.88		0.24.15	8.85	8.35	
435 119 191 1.98 00.559 00.904 00.728 00.694  157.5 55.4 92.7 0.98 00.737 01.589 01.057 01.131 128.50 71.70 1.06 1.28 00.911 02.018 01.192 01.216 08.52 08.63 02.44 214 1.44 00.712 00.674 00.712  100 35.8 42 1.01 01.25 02.58 02.42 02.39 67 41 42 0.74.600 01.855 01.764 01.769 02.19 45 24 24 0.75.70 03.10 03.12 08.12 08.12 08.29 164.3 70 75 0.75.90 01.08 01 01.01 01.94	į	0	08	08		0.82	10.21	10.21	
435 119 191 1.98 00.559 00.904 00.728 00.694  157.5 55.4 92.7 0.98 00.737 01.589 01.057 01.131 128.50 71.70 1.06 1.28 00.911 02.018 01.192 01.216 0.52 08.52 08.52 08.63 0.60.34 1.44 00.712 00.712 100 38.8 42 1.44 1.44 00.712 01.055 01.764 01.769 02.19 45 24 24 0.75.70 03.10 03.12 08.12 08.12 08.29 164.3 70 75 0.75.90 01.08 01 01.01 01.94	.99	O	02.8 01	02.8	00.80	0.47 0.56.2	20 58	20 49	106
128.50 71.70 1.06 1.25 00.911 02.018 01.192 01.216 08.52 08.52 08.52 08.63 00.911 02.018 01.192 01.216 08.52 08.52 08.63 00.974 00.712			00.728	00.904	00.559		191	119	485
128.50 71.70 1.06 1.25 00.911 02.018 01.192 01.216 08.52 08.52 08.52 08.63 00.911 02.018 01.192 01.216 08.52 08.52 08.63 00.974 00.712									
128.50 71.70 1.06 1.25 00.911 02.018 01.192 01.216 08.52 08.52 08.52 08.63 00.911 02.018 01.192 01.216 08.52 08.52 08.63 00.974 00.712									
128.50 71.70 1.06 1.25 00.911 02.018 01.192 01.216 08.52 08.52 08.52 08.63 00.911 02.018 01.192 01.216 08.52 08.52 08.63 00.974 00.712									
128.50 71.70 1.06 1.25 00.911 02.018 01.192 01.216 08.52 08.52 08.52 08.63 00.911 02.018 01.192 01.216 08.52 08.52 08.63 00.974 00.712									
128.50 71.70 1.06 1.25 00.911 02.018 01.192 01.216 08.52 08.52 08.52 08.63 00.911 02.018 01.192 01.216 08.52 08.52 08.63 00.974 00.712									
128.50 71.70 1.06 1.25 00.911 02.018 01.192 01.216 08.52 08.52 08.52 08.63 00.911 00.674 00.712 00.712 00.674 00.712 00.674 00.712 00.674 00.712 00.674 01.769 02.19 45 24 24 0.75.70 08.10 08.12 08.12 08.29 164.3 70 75 0.75.90 01.08 01 01.01 01.01 01.94			•• •••••						
128.50 71.70 1.06 1.25 00.911 02.018 01.192 01.216 08.52 08.52 08.52 08.63 00.911 00.674 00.712 00.712 00.674 00.712 00.674 00.712 00.674 00.712 00.674 01.769 02.19 45 24 24 0.75.70 08.10 08.12 08.12 08.29 164.3 70 75 0.75.90 01.08 01 01.01 01.01 01.94	1.121	1 0	01.057	01.589	00,787	0.98	92.7	56.4	157.5
100	1.216	Ŏ	01.192	02.018	00.911	1.26	1.06	71.70	126.50
100	3.68 3.71	Į Ņ	08.52	08.52		0. <b>50.84</b>	7.08	7.08	
164.3 70 75 0.75.90 01.08 01 01.01 01.94	7.6 14					4.44		~1.Z	
164.3 70 75 0.75.90 01.08 01 01.01 01.94				-		•			
164.3 70 75 0.75.90 01.08 01 01.01 01.94	2.39	0:	02.42	02.58	01.25	1.01	42		100
164.3 70 75 0.75.90 01.08 01 01.01 01.94	3.19	0	01.769	01.764	01.855	0.74.600	42	41	67
164.3 70 75 0.75.90 01.08 01 01.01 01.94		l							
96 83.1 46.2 0.75 00.84 02.22 01.62 01.95	1.94	Į Ž	01.01	01 02. <b>2</b> 2		0.75.90 0.75	75 46.2		164.3

#### 11 B.-TRAFFIC.-CONTINUED.

#### Freights.

			Mile	eage.	
Line No.	Railroads.	Through Freight,	Local Freight,	Total or Tons Moved One Mile,	Moved One Mile Previous Year,
61 62 68 64 65	Toledo & South Haven Traverse City Wabash Wisconsin Central Detroit Union Railroad Depot & Station Co.	a	212,360 982,181,857 282,613,841	212,360 952,181,857 282,618,841	210,446 460,882,872
	Total for commercial roads	2,082,086,471	5,750,890,702	7,782,977,173	6,806,663,767
1 2 3 4	Bear Lake & Eastern Buckley & Donglas Crawford & Manistee River Grass Lake & Manistee River	No report,		<b>-</b>	967,290 342,285 404,400
5 6 7 8	Hecia & Torch Lake Hobert & Manistee River Lake County Manistee & Luther		6,914,250 723,100	723,100	6,721,250 831,190
	Total for ore and forest roads	17,680	7,687,350	7,655,030	8,666,395
	Total for all roads	2,082,104,151	5,758,528,052	7,790,632,203	6,815,330,162

b Absorbed by Manistee & Northeastern.

#### 12.-TONNAGE AND COMMODITIES MOVED.

Line No.	Railroads.	Grain—Tons. 8,58 Per Cent.	Flour—Tons, 2,51 Per Cent,	Provisions. Meats, etc.—Tons, 2,44 Per Cent.
1 2 3	Battle Creek & Sturgis	1.427	4	6
3 4 5	Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw	85,920 809,882	15,894 52,147	4,429 302,043
6	Chicago & Northwestern.	1,962,700	148,263	155,806
7 8 9 10 11 12	Chicago & West Michigan Cincinnati, Jackson & Mackinaw. Cin., Jackson & Mack., W. H. Brown, Receiver. Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwankee	5,312 81.643	9,794 4,128 652 15,258 1,508 74,101	2,605 1,567 319 6,219 1,696 4,669
18 14	Detroit, Lansing & Northern	30,031	8,755	1,344
15 16 17 18	Grand Rapids, Lansing & Detroit. Saginaw & Western.  Duluth, South Shore & Atlantic.  Marquette, Houghton & Ontonagon.  Marquette & Western.	28,017	10,752	1,947
19 20 21				61,165
22	Saginaw & Clare County Saginaw & Mt. Pleasant			
28 24	Frankfort & Southeastern			.
25 26	Grand Rapids & Indiana Hancock & Calumet	43,023 1,380	18,662 826	10,966 1,103

# TRAFFIC,—Continued. Freights.

	Ton Haul.				Rates.			
Through Miles,	Local Miles,	All Miles,	Average Amount Each Ton Haul,	Per Ton per Mile, Through,	Per Ton per Mile, Local,	Per Ton per Mile. All.	Average per Ton per Mile Previous Year,	Line No.
	18.86	18.36	\$0 0.82		<b>\$0 04.520</b>	\$0 04.520	\$0 04.49	61
	198.10 181.91	196.10 131.91	1.42.98 1.87		00.72 01.089	00.72 01.039	00.798	61 62 63 64 65
245.83	125.59	146.18	\$1.11			0 00.759	\$0 01.166	
						<b></b>	08.72 01.75	1 2 3
10		10	0 0.27.66	\$0 02.75		<b>\$</b> 0 02.75	04.40	4
	7.50 7	7.50 7	0.10.5 0.81.50		\$0 02.01 04.50	02.01 04.50	04.40	5 6 7 8
		5.84	0.25.76			0 044.7	<b>\$0 03.4</b> 8	
245.83		142.76	1.08			\$0 00.754	<b>\$0 00.794</b>	

# TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Animals—Tons, 3,20 Per Cent.	Other Agricultural Products—Tons, 3.21 Per Cent,	Lumber and Forest Products—Tons. 22,04 Per Cent.	Coal—Tons, 10,90 Fer Cent.	Plaster, Cement. Line and Sand, Tons. 0.97 Per Cent.	Salt -Tons, 1.27 Per Cent,	Line No.
878	452	1,980	541	54	82	1
2,822 164,129	83,633 71,085	42,983 147,818	27, <b>3</b> 70 82,7 <b>3</b> 0	926 7,678	379 50,087	1 2 3 4 5 6
510,559	402,166	1,275,299	1,902,554	131,070	56,738	6
3,809 8,465 3,086 11,521 459 23,486	36,849 13,692 4,155 9,805 1,800 36,530	548,705 84.854 13.817 126,949 842,601 131,185	65,548 289,864 60,659 22,529 566 42,109	22,981 1,677 209 6,160 208 9,472	1,828 1,378 413 2,178 8,652 2,621	7 8 9 10 11 12
14,587	32,279	299,487	15,567	5,509	5,349	13 14
2,547	10,876	236,559	66,655	8,456	212	15 16 17 18
12,850		1,048,802	84,163	15,280	64,348	19 20 21
						22 23
10,050	64,979 317	915,342 159,972	88,448 9,874	16,857	5,823	24 25 26

# MICHIGAN RAILROAD RETURNS.

# 12.—TONNAGE AND COMMODITIES MOVED.—Continued.

Line No.	Railroads.	Grain—Tons, 8,58 Per Cent.	Flour—Tons, 2,51 Per Cent,	Provisiona, Meats, etc.—Tons, 2,44 Per Cent.
27 28 29 30 31	Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo			
30 31 82 33	Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan			
34 35 36 37 38	Lowell & Hastings. Manistee & Northeastern. Manistique		29	16
<b>37</b> <b>3</b> 8	Mason & Oceana Michigan Air Line Bailway	572 20,873	90 1 <b>8,55</b> 8	909
89 40 41 42	Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley	542,469	144,098	279,638
48 44 45 46	Canada Sonthern Bridge Detroit & Bay City. Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada. Saginaw Bay & Northwestern			
47 48	Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit			
49 · 50 51 52 53 54	Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River.	28,239 48,698 8,218 116,664	12,784 16,683 1,868 158,994	15,258 14,057 11,965 3,959
55 56 57 58	Pontiac, Oxford & Northern Saginaw, Tuccola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon		2,187 1,118 729	957 671
59 60	Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	82,942 8,562	27,656 2,926	816 243
61 62	Toledo & South Haven	875	710	96
68 64 65	Wabash Wisconsin Central Detroit, Union R. R. Depot & Station Co.	779,547 48,401	91,990 34,134	59,334 7,291
_	Total for commercial roads	4,578,876	1,361,452	1,299,860
1				
1 2 3 4	Bear Lake & Eastern. Buckley & Douglas. Crawford & Manistee River. Grass Lake & Manistee River			
5 6 7 8	Hecla & Torch Lake Hobart & Manistee River	200		
8	Lake County Manistee & Luther			
	Total for ore and forest roads.	300		
	Total for all roads	4,578,676	1,361,452	1,299,860

a Included with G. R. & I. report.

#### TONNAGE AND COMMODITIES MOVED .- CONTINUED.

Animals—Tons. 3,20 Per Cent.	Other Agricultural Products—Tons, 3,21 Per Cent,	Lumber and Forest Products—Tons, 22,04 Per Cent,	Coal—Tons, 10.90 Per Cent,	Plaster, Cement, Lime and Sand, Tons, 0.97 Per Cent.	Salt—Tons, 1,27 Per Cent,
455,138	350,631	820,222	1,408,288	142,206	46,581
				•••••	
**************	10	116,829	2	8	10
10	<u>5</u>	187,115 69,171	<u>5</u>	20	
2,636	17,891	38,147	25,919	460	45 879
216,722	815,561	1,929,280	771,518	27,146	248,438
				••••••••••	
5,778 <b>4,798</b>	5,480 11,899	758,787 218 102	67,498 25,541	6,822 22,766	1,727 2,091
225 9,177	5,480 11,822 1,508 22,985	758,787 213,102 58,981 812,408	9,844 58,056		
9,177	22,985	812,408	58,056	6,699	8,505
3,319	5,876	20,798	3,021	900	1,478
33	809 895	85,958	114 420	288 1,665	408 5,778
181	895	88,158	420	862	5,778
5,894	28,029	205,477	325,484	4,558 462	57,802 229
2,404	10,231	87,115	1,987		
822	1,661	5,604	259	84	171
211,929 20,633	182,8 <b>3</b> 5 91,8 <b>3</b> 1	308,124 404,028	967,238 68,888	50,604 27,779	116,494 2,968
1,707,887	1,715,028	11,854,047	5,788,259	513,911	678,585
		60,752 46,290			
		1	83,000	600	
		103,300		•••••	
		80,000 103,300 80,244 95,509			
		416,085	83,000	600	
1,707,337	1,715,023	11,770,062	5,821,259	514,511	678,585

# MICHIGAN RAILROAD RETURNS.

# 12 A.-TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Line No.	Railroads.	Petroleum and Charcoal. Tons. 1.48 Per Cent.	Railroad Rails, Tons, .49 Per Cent,	Pig and Bloom Iron, Tons, 1,30 Per Cent,	Other Iron and Castings. Tons, 1.94 Per Ceut,
1	Battle Creek & Sturgis.	•		854	51
2 3	Chicago & Canada Southern	3,298	40	603	955
4	Chicago & Grand Trunk	4,894	20,252	6,611	10,253
5 6	Satus Creek & Sturgs. Chicago & Canada Southern. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk. Chicago & Ralamazoo & Saginaw. Chicago & Northwestern.	111,074	74,007	189,316	145,045
7	Chicago & West Michigan	3,766	12,090	17,298	10,951
8	Cincinnati, Jackson & Mackinaw	8,409	752	30,850	3,838
9 10	Cin., Jack. & Mack., W. H. Brown, Receiver,	1,102 9,781	1.727	9,649 3,879	1,434 14,913
11	Detroit. Bay City & Alpena	466	2,514		510
11 12	Chicago & Weet Michigan Cincinnati, Jackson & Mackinaw. Cin., Jack & Mack., W. H. Brown, Receiver, Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee	1,436	560	1,847	6,554
13 14	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit. Saginaw & Western Duluth, South Shore & Atlantic. Marquette, Houghton & Ontonagon Marquette & Western	8,100	2,484	1,389	7,445
15 16	Baginaw & Western )	2.098	23,234	32,918	9 740
17 18	Marquette, Houghton & Ontonagon	2,000	20,201	00,010	0,750
18	Marquette & Western )				
19	Flint & Pere Marquette				
20	Manistee.				
22	Saginaw & Clare County				
28	Saginaw & Mt. Pleasant				
24	Frankfort & Southeastern	19 750	10.804	49 501	38,629
19 20 21 22 28 24 25 26	Manquette & Western )  Flint & Pere Marquette	18,738	10,094	42,301	38,024
27 28 29 30	Lake Shore & Michigan Southern System.  Detroit, Hillsdale & Southwestern.  Detroit, Monroe & Toledo.  Fort Wayne & Jackson.  Kalamazoo, Allegan & Grand Rapids.  Kalamazoo & White Pigeon.  Northern Central Michigan.	486,302	26,857	190,139	574,423
29	Detroit, Monroe & Toledo				
31	Kalamazoo, Allegan & Grand Rapida				
82	Kalamazco & White Pigeon				
<b>3</b> 3			·		
34 35	Lowell & Hastings Manistee & Northeastern Manistique	17			1
35 36	Manistique		1		
37 38	Mason & Oceana   Michigan Air Line	229	60 61	96	1,017
89 40	Michigan Central System	79,274	26,907	98,713	115,297
41	Detroit & Bay City				
42	Grand River Valley				·
48 44	Kalamazoo & South Haven				
45	Michigan Air Line railroad				
	Michigan Midland & Canada		-	-	
46					
47 48	Toledo, Canada Southern & Detroit		-		
47 48 49 50	Milwaukee, Lake Shore & Western	1,895	342	6,622 20,003	9,586
47 48 49 50 51	Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range	1,895	342 3,097	6,622 20,003	9,586 5,245
47 48 49 50 51 52 58	Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range	1,895	342 3,097	6,622	9,586 5,243
47 48 49 50 51 52 58 54	Milwaukee, Lake Shore & Western. Milwaukee & Northern. Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie. Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River	1,395	342 3,097	6,622 20,003	9.586
47 48 49 50 51 52 58 54 55	Milwaukee, Lake Shore & Western. Milwaukee & Northern. Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie. Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River	1,395	342 3,097	6,622 20,003	9,586 5,247 8,470
47 48 49 50 51 52 58 54 55	Milwaukee, Lake Shore & Western. Milwaukee & Northern. Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie. Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River	1,395	342 3,097	6,622 20,003	9,586 5,245
47 48 49 50 51 52 58 54	Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range	1,395	342 3,097	6,622 20,003 1,589	9,586 5,243 8,470

# TONNAGE AND COMMODITIES MOVED.—CONTINUED.

Ores and Minerals, Tons. 9.30 Per Cent-	Stone, Brick, Sand, Etc. Tons. 4.62 Per Cent.	Manufactures, Tons. 3.45 Per Cent.	Merchandise and Articles not In- cluded in Other Classes. Tons, 12.90 Per Cent,	Total Tonnage 1889.	Total Ton- nage Previous Year.	Freight Forwarded from Michigan Stations, Tons,	
•		9	489	5,822	50,702	5,822	
4,480	11,167 95,067	45,737 149,098	88,488 263,547	814,639 1,741,198	868,167 1,486,908	225,256 308,588	Ì
8,726,126	467,077	298,697	1,528,605	11,880,177	11,107,068	3,842,135	۱
170	27,996 91,864	21,862 19,801	81,814 48,171	888,892 582,717	936,270 591,750	810,078 88,920	
43	2,441 22,947	65 29,606	5,815 60,319	108,683 874,927	336.831	14,161 101,564	ı
41	487 28,662	890 21,479	11,376 120,4 <b>3</b> 0	874,927 871,768 567,875	336,831 493,547 577,671	101,564 871,768 483,263	
	7,904	12,208	39,361	486,624	458,855	486,624	
1,520,886	21,381	13,890	81,249	2,055,457	1,417,479	2,017,992	
	14,088	85,736	171,460	1,596,888	1,574,002	1,584,110	
					90,299		1
							١
38,782 427,965	240,914	127,758 4,282	104,448 11,274	1,786,574 616,498	1,665,157 516,877	1,294,801 616,498	
984,474	958,040	361,424	1,584,314	10,020,599	9,069,857	993,600	
· · · · · · · · · · · · · · · · · · ·			***************				
					<b></b>		
			50	117,040			1
· · · · · · · · · · · · · · · · · · ·			l			117,040	l
	10		1,965 500	189,080 70,600	108,450	117,040 189,090 70,600	
• • • • • • • • • • • • • • • • • • • •	5,651	10,690	63,063	196,802	63,307 246,414	146,291	ı
13,465	213,551	518,704	789,182	6,299,948	6,231,421	2,966,369	
							l
							١
							ı
1.668.688	65,488	76,162	126,327	2,845,585	2,120,836	1,482,367	
1,668,688 177,261 11,062	29,137	34,954	126,327 59,721	689.859	542,787 98,759	194,308 115,520	ı
83,272	8,276	4,491 1,122	18,018 58,619	115,520 847,865	315,442	490,898	1
	01	990	0 000	RR 419	61,489	55 419	
	84 87,250 7 <b>6</b> 6	228 267	8,966 4,069	55,412 85,990	66,964	55,412 85,990 57,715	
	766	1,208	7,897	57,715	62,166	57,715	1
1,200	12,922	14,899	111,331	863,776	652,939 22,467	419,081	
47	1,397	2,101	9,597	78,152	00 407	78,152	

#### 12 A.-TONNAGE AND COMMODITIES MOVED. - CONTINUED.

Line No.	Railroads.	Petroleum and Charcoal, Tons, 1,48 Per Cent,	Railroad Rails, Tons, 0,49 Per Cent,	Tons.	Other Iron and Castings, Tons, 1,94 Per Cent,
61 62	Toledo & South Haven				60
63 64 65	Wabash. Wisconsin Central. Detroit Union Railroad Depot & Station Co.	82,308 27,544	15,958 26,672	23,844 10,896	5,735 55,954
	Total for commercial roads	791,896	260,192	693,118	1,083,772
12345	Bear Lake & Eastern Buckley & Donglass Crawford & Manistee River. Grass Lake & Manistee River Heela & Torch Lake.				
8 9 10	Hobart & Manistee River Lake County Manistee & Luther Colfax & Big Rapids Mecosta				
_	Total for ore and forest roads				1,000
_	Total for all roads	791,898	260,192	693,118	1,084,772

# 18.—EQUIPMENT.

Line No.	Railroads.	Estimated Value,	Lecomotives all classes,	all classes,	Baggage, Mail, and Express Cars,
=			Number.	Number.	Number.
1 2	Battle Creek & Sturgis Bay City & Battle Creek	l	1	1	1
8 4 5 6	Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw. Chicago & Northwestern.	1,268,750 20,350 11,775,620	1 9 1	30 2 855	17
7 8	Chicago & West Michigan Cincinnati, Jackson & Mackinaw	629,500	i	89	21
9 10 11 12	Cincinnati, Jackson & Mackinaw } Cin., Jack & Mack., W. H. Brown, Receiver } Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee	294,525 486,050 820,950 585,075	25 23 20 41	20 16 5 25	3 8 2 20
18 14 15	Detroit, Lansing & Northern			89	17
16 17 18	Duluth, South Shore & Atlantic	2,494,948	118	45	
19 20	Flint & Pere Marquette				
21 22 28					
24 25 26	Grand Rapids & Indiana Hancock & Calumet	1,328,100	66 6	62 4	24 1

a Equipment supplied by Grand Trunk of Canada.

# TONNAGE AND COMMODITIES MOVED .-- CONTINUED.

Ores and Minerals, Tons, 12,05 Per Cent,	Stone, Brick, Sand, Etc. Tons, 3,75 Per Cent.	Manufactures. Tons, 4,24 Per Cent,	Merchandise and Articles not In- cluded in Other Classes, Tons, 22,00 Per Cent.	Total Tonnage, 1889.	Total Tonnage Previous Years,	Freight Forwarded from Michigan Stations. Tons.	Line No.
	43		1,664	11,673	10,522	11,678	61
8,589 801,787	69,628 36,362	41,797	690,148 482,845	3,596,042 2,142,508	2,799,783	188,122	6
9,463,288	2,464,540	1,839,140	6,564,542	52,107,288	44,129,651	19,803,778	_
845,000	8,000		8,000	60,752 46,230 915,900	45,910 34,285 88,700 869,500	60,752 46,230 915,900	
, 			1,115	103,800 80,244 96,624	118,740 78,778 44,846	103,300 80,244 96,624	
845,000	8,000		4,115	1,303,050	1,297,522	1,808,048	10
10,308,238	2,467,540	1,839,140	6,568,657	53,410,388	45,427,178	21,106,826	

#### EQUIPMENT.—CONTINUED.

Box Freight Cars,	Stock Cars.	Platform and Coal Cars,	Ore Cars.	Conduc- tors' Way Cars,	All Other Kind of Cars,	Total Cars,	Locomo- tives Equipped		pped with Brakes.	No.
Number.	Number,	Number,	Number.	Number,	Number,	Number,	with train brake. Number,	Passenger, Number,	Freight. Number,	Line N
						2	1	2		1 2 3
148	15	145 10		63 1	10 15	428 28	110 2	47 2		3 4 5 6
14,588 824	1,861	1,005	4,346	451 21	265 217	26,130 2,133	616 45	584 61	847	
598 485 88	19 18	428 208 610		8 11 5	8	1,066 744 661	5 23 20	28 24 7		7 8 9 10 11 12
362 410	44 42	199 539		21 27	29 10	700 1,084	14 25	45 56		12 18 14
810		770	4,046	52	183	5,919	75	58		15 16 17 18
1,598	29	1,880		39	254	3,363	42	117		19
••••••••••••••••••••••••••••••••••••••										20 21 22 23 24 25 26
1,887 15	50	1,558 78	75	46	16	8,148 172	50	86	4	24 25 26

#### 13.—EQUIPMENT.—CONTINUED.

Line No.	Railroads.	Estimated Value	Locomotives all classes, Number,	Passenger ('ars all classes, Number,	Baggage, Mail, and Express Cars.
27 28 29 30 31 32	Lake Shore & Michigan Southern System Detroit, Hillsdale ** Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan	\$7,270,346			97
29	Port Wayne & Jackson				
31	Kalamazoo, Allegan & Grand Rapids				l
32	Kalamazoo & White Pigeon.				
99	Northern Central Michigan			•	
34 85 36 87 88	Lowell & Hastings Manistee & Northeastern Manistique	35,569	2 8 2	1	
38 38	Mason & Oceana Michigan Air Line Railway	46,622 26,400	2	1	1
89 40 41	Michigan Central System	7,899,850		209	79
42	Grand River Valley.				1
43 44	Canada Southern Bridge Detroit & Bay City Grand River Valley. Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line Railroad Michigan Midland & Canada Saginaw Bay & Northwestern. Toledo, Canada Southern & Detroit				
45	Michigan Air Line Railroad				
46	Michigan Midland & Canada				
47 48	Saginaw Bay & Northwestern				
	Toledo, Canada Bouthern & Deutoit				
49	Milwaukee, Lake Shore & Western	2,676,800 656,200	97	47	16
50 51	Milwaukee & Northern	83,987	37	25 5	11 2
52	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie. Muskegon, Grand Rapids & Indiana.	2,201,200	62	41	11
52 58 54	Muskegon, Grand Rapids & Indiana Ontonagon & Brule River	b	i	i	
- 1	Ontonagon & Brue Liver		•	_	
55	Pontiac, Oxford & Northern	110,500	5	7	1
57	Saginaw, Tuscola & Huron	105,300 86,500	8	8 2	1 1
56 57 58	Saginaw & Grand Rapids	00,000		<b>_</b>	
59 60	Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	617,200 98,600	36 6	13	9
ov	Loiego, Dakiusa & workekon	80,000		•	•
61	Toledo & South Haven	24,490	3	4	<b> </b>
62 63	Traverse City. Wabash.	5,696,375	404	167	109
64	Wisconsin Central	0,080,010	40	22	109
65	Wisconsin Central Detroit Union Railroad Depot & Station Co				
	Total for commercial roads	\$56,937,399	3,080	1,508	623
	ORE AND FOREST ROADS.				l
1	Bear Lake & Eastern. Buckley & Douglas. Crawford & Manistee River. Grass Lake & Manistee River. Hecla & Torch Lake.	30,215	8	1	
1 2 8	Crawford & Manietoe River	0 150	1		
4	Grass Lake & Manistee River	9,150 8,000 162,200	1	1	
5	Hecla & Torch Lake.	162,200	9	1	
6	Hobart & Manistee River	20,400	2		
7	Lake County	16,000	3		
8	Manistee & Luther North Branch & Sauble River	14,000	. <b>6</b>	1	
	Mortin Dranch & Sannie Maer	14,000			
	Total for ore and forest roads	\$259,965	27	.8	
	Total for all roads.	\$57,197,364	3,107	1,508	623

b Equipped and operated by the G. R. & I.

c Absorbed by the Manistee & Northeastern.

# EQUIPMENT.—CONTINUED.

Box Freight Cars.	Stock Cars.	Platform and Coal Cars,	Ore Cars,	Conduc- tors' Way Cars,	All Other Kinds of Cars.	Total Cars.	Locomo- tives Equipped with train	Cars Equi Power	pped with Brakes,
Number,	Number,	Number.	Number,	Number.	Number,	Number.	brake, Number.	Passenger, Number,	Freight. Number.
11,908	1,467	5,881		259	224	19,494	511	305	
. <b></b>									
			<b></b>						
								<b></b>	
		5		l	ŀ	5	1		
5		100		1	7	115	1 3	2	2
		57		ī	l	58 159			
2		144			11	159	2		
18	4					24	1	2	
			ł						
7,401	1,361	3,483		266	150	12,949	112	209	
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		1							
	1				ــ ا		l		
1,990 708	55 10	1,878 207 58 776	850 150	48 11 1	28 150	4,405 1,272 102 8,572	77 36	61 86	306
708	1 10	207	150	1 11		1,2/2	36	86	
2,685	25	778	i	35	47	102	62	5 52	
2,080	20	110	1 *	30	<b>*</b> /	8,072	02	)Z	
2		15			i	19			
						. 10			
46 97	4	61	l	1	1	121	8	8	l
97	9	129		1 2 2	24	273	8	8 8 8	83
10		40	l	2	<b></b>	55	2	8	
681		875		18	26	1,117	12 2	18	
80		52		2		140	_ z	6	
12	i	16	1		13	45	2	4	1
70		10			1.0	100		•	J * 1
8.852	1,612	8,829		204	206	13,979	404	276	
8,352 552	2,00	197	789	25	15	1,708	40	81	
				1					
	-								
55,785	6,729	26,765	10,257	1,611	1,912	105,185	2,811	2,087	748
	1	1		1		1	, i		1
	1	1				1	1		
	I	53			14		1		
•••••		93			19	68	1		
		9.4			2	98			
		84 80 68			ī	36 31 328			[
4		63	248	8	آ ا	328			
•		1	1	1				l	
	l	42	l	1	I	42	1	<b></b>	l
		42 40 15 50				42 40 257	ļ		
2		15		8	286	257			
		. 50				. 50			
	l	l			l	<u> </u>	!	l	l
_	1			_			_	1	l
6		827	248	6	257	847	1		
			.	l		·			
						1	1		
55,791	6,729	27,092	10,505	1,617	2,169	106,032	2,312	2,087	743

# 14.—STATIONS AND EMPLOYÉS.

	•	Stat	ions.	Emp	olo <del>yés</del> .
Line No.	Bailroads.	Total.	In Michigan,	Total,	In Michigan
1 2	Battle Creek & Sturgis	10	10	42	41
8456	Battle Creek & Sturgis. Bay City & Battle Creek. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk. Chicago, Kalamazo & Saginaw. Chicago & Northwestern.	12 84 12 686	12 45 12 37	302 2,721 52 16,758	302 1,812 52 1,640
7 8 9	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Seginaw & Mackinaw, W. H. Brown, Receiver Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwankee	109 88	108 86	1,229 629	1,186 233
10 11 12	Cincinnati, wacean & Michigan. Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwaukee	40 31 40	8 31 40	410 850 1,080	41 350 1,080
13 14 15 16 17	Detroit, Lansing & Northern	80	90	1,076	1,074
16 17 18	Detroit, Lansing & Northern	86	72	1,389	1,981
19 20 21	Tilling & Days Managed a	1 440	ا مبه	2,263	2,261
20 21 22 23 24 25 26	Manistee Port Huron & Northwestern Saginaw & Clare County Saginaw & Mt. Pleasant Frankfort & Southeastern Grand Rapids & Indiana Hancock & Calumet	168	148	2,198	1,898
	Hancock & Calumet	6 288	6 87	80 11,974	80
27 28 29 30 81 82 83	Lake Shore & Michigan Southern System Detroit, Hilledale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan				
82 88 84			,		
85 86 87 88	Lowell & Hastings. Manistee & Northeastern. Manistique. Mason & Oceana. Michigan Air Line Railway.	8 6 20	15 8 6 20	150 46 40 176	150 46 40 176
89 40 41	Michigan Central System Canada Southern Bridge. *Detroit & Bay City.	4.20	280	8,887	5,910
42 43 44 45 46	Michigan Central System Canada Southern Bridge. Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line Railroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit				
47 48 .	Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit				
49 50 51 52 58	Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River	88 65 4 91	8 10 4 14	1,939 928 70 975	260 87 70 195
58 54	Ontonagon & Brule River	6	6	85	35
55 56 57 58 59 60	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	22 18 17	22 18 17	109 81 68	109 81 63
59 60	Toledo, Ann Arbor & North Michigan	77 25	74 25	894 101	746 101

Included with Grand Rapids & Indiana.

#### STATIONS AND EMPLOYÉS.—CONTINUED.

			E	mployés Cla	esified.			
aggage- men, umber,	Brake- men, Number,	Conduc- tors. Number.	Engineers, Number,	Firemen, Number,	Laborers. Number,	Shopmen, Number,	Yardmen, Number,	Others Number,
2	2	2	2	2	19	2		11
5 81	16 216	11 105 2	21 148 2 928	19 186	81 774	1 545	25 92 2 712	123 674 18 8,758
290	1,129	606		1,005	5,140	8,195	l .	
<b>84</b> 8	77 35	42 22	56 81	59 38	884 277	<b>288</b> 81	85 14	304 128
5 2 22	18 50 47	12 25 30	19 25 48	19 25 48	124 183 858	95 10 64	6 1 34	112 29 429
27 ,	68	88	48	44	894	204	17	241
14	79	40	55	56	596	207	70	272
	243	82	99	105	708	313	115	608
· · · · · · · · · · · · · · · · · · ·			••••••••••••••••••••••••••••••••••••••					
	107				K90	819	111	981
20 2	127 10	72 3	94 5	99 5	520 21	6	<u></u>	881 28
160	665	820	356	583	1,477	1,020	1,018	6,875
•••••								
					•			
<u>i</u>	8	8	8	8	182	8	2	Б
i	8 3 7 14	8 8 1 9	8 8 5 4	8 8 5 4	182 29 16 92	4 1	2	50
98	582	280	468	<b>58</b> 8	2,075	987	678	8,266
						• • • • • • • • • • • • • • • • • • • •		
							=0	
15 10 4 8	140 58 6 20	76 80 10	104 43 5 10	112 42 5 10	988 247 16 80	824 96 10	58 84 8 5	177 368 14 52
	l <b></b>		10 1	10	80 28	5	5	52
1	1	1						ļ
2	4	8 8 3	3 5 8	8 5 4	51 33 28	16 4 4		27 25 15
2 6 2	•							

#### 14.—STATIONS AND EMPLOYÉS.—CONTINUED.

		Sta	tions.	Emp	oloyés.
Line No.	Railroads.	Total,	In Michigan.	Total.	In Michigan,
61 62	Toledo & South Haven		6	27	27
63 64 65	Wabash Wisconsin Central Detroit Union Railroad Depot & Station Company.	125 175	17 3	243 2,860	243 116
	Total for commercial roads	8,053	1,415	60,152	23,726
1 2	Bear Lake & Eastern	5	5	11	11
8 4 5	Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake	2	2 2 2	31 22 136	81 22 136
6 7 8 9	Hobart & Manistee River. Lake County Manistee & Luther North Branch & Sauble River	2 8	2 2 3 2	40 28 104 12	40 23 104 12
	Total for ore and forest roads	20	· <b>2</b> 0	879	379
	Total for all roads	8,053	1,485	60,531	24,105

a Included with the Grand Rapids & Indiana.

#### 15.—PERMANENT WAY.

		Bridge Structures.									
ď	Railroads.	Wooden, Sto		Ston	Stone or Iron,		bination,	Tre	stics.		
Line No.		No.	Length, Feet,	No.	Length, Feet,	No.	Length, Feet,	No.	Length, Feet.		
1 2 8 4 5 6	Battle Creek & Sturgis.  Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago & Northwestern		2,548	6 16	792 1,568 790	8	494	58 88 547	8,519 1,490 25,817		
7 8 9 10 11	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cin., Jackson & Mack.—W. H. Brown, Rec Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwaukee	1	1,505 144 60 1,394	1  2 21	1,026 436 2,777	2	675 1,487	202 89 2 9 42	25,584 21,926 555 2,158 3,048		
15 15 16 17	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit Seginaw & Western Dulnth, South Shore & Atlantic Marquette, Houghton & Ontonagon Marquette & Western	158	595 14,996	24 	2,658			58 84	4,977 7 961		
19 20 21 22 23 24 25	Flint & Pere Marquette  Manistee Port Huron & Northwestern Saginaw & Clare County Saginaw & Mt. Pleasant Frankfort & Southeastern Grand Rapids & Indiana. Hancock & Calumet	10	1,979	16  9 8	1,907 	9	1,091	128 168 17	17,580 12,257 4,450		

# STATIONS AND EMPLOYÉS.—CONTINUED.

				ssified.	imployés Cla	E			
	Others, Number,	Yardmen, Number,	Shopmen, Number.	Laborers. Number.	Piremen. Number.	Fngineers, Number,	Conduc- tors, Number,	Brake- men. Number.	Baggage- men, Number,
	6		1	18	2	2	1	1	1
	5 <u>4</u> 1,200	29 148	479	104 475	140	148	18 85	85 187	8
-	19,457	8,261	8,817	15,724	8,169	2,791	1,988	8,897	773
3	8			4	2	2			<b></b>
9	2 19 6	10	10	26 82	1 1 6	1 1 6	4	1 1 12	
3	30 1 16 2	8	1 5	9 50	2 3 7 4	2 3 7 2		6 6 18 2	
,	79	13	16	171	26	24	9	41	
3	19,588	8,274	8,883	15,895	8,195	2,815	1,992	8,988	778

#### PERMANENT WAY.—CONTINUED.

	Bridge	Struct	ares.	Railro	ed Cros	sings.		Hi	gh <b>way</b> (	rossing	B.		
Drav	v Bridges	T	otal.	At Grade,	Over or Under,	Total,	At Grade,	With Gates or Signal,	Over or Under,	18 Feet Above Track.	Less than 18 feet above	Total,	4
No.	Length, Feet.	No.	Length, Peet.	No.	No.	No.	No.	No.	No.	No.	track.	No.	Line No.
				4			48					48	1
1 	123	7 74 88 586	915 5,087 1,430 29,584	5 18 2 18	1 5	5 14 2 18	90 268 64 141	11 1 7	4	2 7	2	90 267 64 148	
5	589	215	29,279	9	1	10	485	28	20	8	1	505	
  2	270	90 8 26 65	22,070 615 5,425 6,092	10	3 2	18 2 13	187 48 90 248	1 2 30	6 2 18	1 1 5	5	198 45 90 286	10
		90	8,225	11		11	439	8	17	9		456	11
		194	28,489	82	2	84	158	21	18	2		168	14 14 16 17
4	640	179	22,995	24		24	719	25	11	8		790	19
													2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		194 20	14,972 5.010	20	1	21 1	492 12	82 1	6 1	5		498 13	21

# 15.—PERMANENT WAY.—CONTINUED.

					Bridge 8	Struc	tures.		
No.	Railroads.	W	ooden.	Stone	e or Iron,	Combination.		Trestles,	
our l		No.	Length, Feet.	No.	Length, Feet,	No.	Length, Peet.	No.	Length Feet,
7 28 19 10 11 12	Lake Shore & Michigan Southern System  Detroit, Hillsdale & Southwestern  Detroit, Monroe & Toledo  Fort Wayne & Jackson  Kalamazoo, Allegan & Grand Rapids  Kalamazoo & White Pigeon  Northern Central Michigan	81	4,225	9	895	1	305	85	12,25
9	Detroit, Monroe & Toledo								
8	Kalamaroo Allegan & Grand Rapida								
2	Kalamazoo & White Pigeon								
18	Northern Central Michigan						- <b></b>		
14	Lowell & Hastings	l				l			
15 16 17 18	Manistee & Northeastern	3	152					2	4.5
80 27	Manistique	8	240 450						
18	Lowell & Hastings. Manistee & Northeastern. Manistique. Mason & Oceana. Michigan Air Line Railway.	3	450 239					78	6,56
19		205	14,615	39	4,967	5	3,358	77	7,79
NO I	Michigan Central System Canada Southern Bridge	205	14,013	28	4,807	3	3,336		1,18
10 11 12 13 14 15 16 17	Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Roy & Northwestern								
2	Grand River Valley								
4	Kalamazoo & South Haven								
5	Michigan Air Line R. R.								
9	Michigan Midland & Canada.								
8	Saginaw Bay & Northwestern. Toledo, Canada Southern & Detroit								
9		,	490	l		ĺ			8,05
0 I	Milwaukee, Lake Shore & Western	1 4	439 280	i	117			26 82	6.78
1 2	Mineral Range	ļ <del>.</del> .		ļ				6	64
2	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana Ontoneon & Barlls Bives	18	1,982					121	18,61
8	Ontonagon & Brule River	•						25	5,05
.		8	940					٠,	
5 6 7	Pontiac, Oxford & Northern	11	210 1,297					18	1,51
7	Saginaw Valley & St Louis	4	158					4	34
8	Saginaw & Grand Rapids	2	96				220	192	10.66
9	Saginaw, Tuscola & Huron. Saginaw Valley & St Louis. Saginaw & Grand Rapids.  Toledo, Ann Arbor & North Michigan  Toledo, Saginaw & Muskegon.	4	875			4	220	70	6,8
		1							-,
1 2 8 4 5	Toledo & South Haven Traverse City	11	1,140						
8	Wabash	.				2	359	89	8.00
4	Wisconsin Central.  Detroit Union R. R. Depot & Station Co	4	358					6	8,00
•	Detroit Union R. R. Depot & Station Co								
	Total commercial roads	552	50,556	161	19,393	88	8,878	2,273	217,80
	ORE AND FOREST ROADS.					i	İ		
1	Roor Lake & Fastorn	9	96		1		1	2	70
2	Buckley & Douglas		20						
8	Crawford & Manistee River	.				ļ			
12845	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake							5	1,50
				1		1	1		
6 7 8	Hobart & Manistee River	2	650	]		·	ļ	2	68
8	Lake County Manistee & Luther	1 3	150			1		1	6
9	North Branch & Sauble River	·						<del>-</del> -	ļ. <b></b>
	Total ore and forest roads	8	896			'— 		10	2,94
		-[	.	.]	.	.		l	l
		•	1	1		1	1	ı	i .

a Reported with Grand Rapids & Indiana.

#### PERMANENT WAY .- CONTINUED.

Highway Crossings.					Bridge Structures. Railroad Crossings.					
18 Feet than above track, above	Over or Under,	With Gates or Signal,	At Grade,	Total.	Over or Under,	At Grade,	Total.		Bridges	Drav
No. track.	No.	No.	No.	No.	No.	No.	Length, Feet.	No.	Length, Feet.	No.
7	12	87	827	88	2	31	18,019	128	339	2
l							792	<u>-</u> -	160	<sub>i</sub> -
			8	1		1	792 240	6 2		
2	2	····i	11 181	6		6	450 6,805	8 81		
27 9 1	54	161	1,290	54	6	48	82,104	886	1,867	10
		2	17 20 18 47	4	8 1	1 7	3,491 7,180 825	88		
1	1 2	<u>2</u> -	18	8		i	7,180 825	87 7	180	·i
2	2	2	47	1 8	1	7	15,549	184		
			8				5,058	25		
1	1		104	4	1	8	1,720	21		
		4	89 59	2 1		8 2 1	1,840 500	12 8	48	1
							ŀ			
1 2	4 8	5	282 125	18 6	1	12 6	10,981 7,212	198 74		
			21	1		1	1,140	11		• • • •
							!i			- <b>-</b>
		6 1	116 5	7		7	8,367 8,427	91 10		
		1					0,921	10		
.										
84 19 6	196	392	6,599	825	81	294	800,288	8,046	3,661	27
	13		18		<b></b>		796	5		
	8		8							
			7							
	•••••	2	ł	2	<b>-</b>	2	1,500	5		
			1	i		i	685	2 2		
				2		2	650 210	;		
			8	1		2				
	16	2	31	6		6	8,841	18		
84 19 6	202	394	6,630	831	81	300	304,129	3,064	8,661	27

#### 15 A.—PERMANENT WAY.—CONTINUED.

		Fenc	ing.
Line No.	Railroads.	Completed Miles, Number,	Required Miles, Number,
1	Battle Creek & Sturgis		
1 2 8 4	Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago & Kalamazoo & Saginaw Chicago & Northwestern		
3	Chicago, Detroit & C. G. T. Junction.	122.74 456.00	
5	Chicago, Kalamazoo & Saginaw	87.00	
6			178.60
7	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Jackson & Mackinaw—W. H. Brown, Receiver Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwankee	782.00	44.00
8	Cincinnati, Jackson & Mackinaw—W. H. Brown, Receiver	295.00	11.11
10	Cincinnati, Wabash & Michigan	66.00	
11 12	Detroit, Grand Haven & Milwankee	30.00 385.00	
	To the Table 1 of the Table 1	040.00	
13 14	Detroit, Lansing & Northern	046.00	
15	Saginaw & Western		
16 17	Duluth, South Shore & Atlantic	75.00	759.00
18	Marquette & Western		
10	Wind & Then Managed	494.04	112.50
20	Manistee		112.00
21	Port Huron & Northwestern		
23	Saginaw & Mt. Pleasant		
24	Frankfort & Southeastern		
19 20 21 22 23 24 25 26	Manistee. Port Huron & Northwestern. Saginaw & Clare County Seginaw & Mt. Pleasant Frankfort & Southeastern Grand Rapids & Indiana Hancock & Calumet	333.17 6.00	85.00 84.00
27 28 29 30 31 82	Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon Northern Central Michigan	1,141.56	
34 85 86 87 88	Lowell & Hastings Manistae & Northeastern	14.50 15.00	57.00
87 88	Manistique Mason & Oceana Michigan Air Line railway	16.00 214.00	1.00
89	Michigan Central System	1,766.00	145.00
40	Canada Southern Bridge.		
41 42	Grand River Valley		
43	Jackson, Lansing & Saginaw.		
44	Kalamazoo & South Haven		
46	Michigan Midland & Canada		
43 44 45 46 47 48	Michigan Central System. Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line railroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit.		
49 50	Milwaukee, Lake Shore & Western Milwaukee & Northern	22.98 9.50	152,67 51,25
51	Mineral Range	8.00	81.00
52 58	Minneapolis, St. Paul & Sault Ste. Marie	24.60	360.00
54	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie. Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River.		82,00
55	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Bapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	189.90	10.20
56	Saginaw, Tuscola & Huron.	133.14	
56 57 58	Saginaw & Grand Rapida	78.14	
59 60	Toledo, Ann Arbor & North Michigan	426.00	112.00
υU	Toledo, Saginaw & Muskegon	182.38	9,61

a Reported with Grand Rapids & Indiana Railroad.

#### PERMANENT WAY.—CONTINUED.

Maintenance. Renewals.								
	Ties.		id in Mich.	New rails ia	Average No.	Average	Track	Trestles replaced
Average per mile in Mich. No.	in Michigan, No.	Entire Line, No.	Miles of Track.	Tons,	of Men to each section.	length of sections, Miles,	sections in Mich. Number,	vith earth work, Linear feet,
		. •						
480 479	28,582 107,298	28,532 178,862	16.08	1,688	4 5	4.50 5.00	18 45	884
. 278	56,610	1,183,159	115.18	12,551	3 4.8	5.00 6.00 6.00	8 <b>63</b>	
495	188,500	202,107	. 212.00	2,000	3	5.50	78	2,965
213 217	28,386 7,255 20,997	42,899 36,554 20,997 111,602			8	7.05 6.00 8.00	22 6 97	465 275 80 156
590	111,602		2.00	210	4	5.10	27 87	1
385	128,596	123,586	9.80	857	3	5.50		448
178	78,000	75,000	8,25	760	5	8.00	77	
897	560,776	560,776	130.82	18,480	4	11.25	118	
			••••••					
495	213,573	233,750	20.00	1,807	4	4.22 5.00	99 5	243
505	166,986	711,678	148.91	15,960	4	5.67	100	51.50
			••••••					
• • • • • • • • • • • • • • • • • • • •								
		••••	•••••			4.00		
					8 6	6.00 7.00	2 5	
			16.00	140	1 4	8.00	4	
<b>3</b> 7 361	1,000 37,991	1,000 87,991			8	8.00 7.00 7.00	14	795
842	861,197	523,617	84.69	4,855	4	4.80	245	517
· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •						
•••••								
								•
			••••••					
509 <b>26</b> 6	22,560 16,620	824,788	57.98	6,482	8 5	6.00 7.00	14	
266 355	16,620 6,050	80,700			4	7.00	8	
505 85	3,072	80,700 6,050 17,066			8	6.00 7.00	27	
• • • • • • • • • • • • • • • • • • • •					4	7.66		
632	89 907	ge 907			3	1	6 16	
924 924	03,291 21 579	21 579	1.27	69	8	6.26 6.00	11	
324 381	63,297 21,572 14,866	68,297 21,572 14,866			8	5.63	11 7	
						7.00	41	384
127	38,540	41,178			1 4	7.(0)		004

#### 15 A.-PERMANENT WAY.-CONTINUED.

		Fenc	ing.
Line No.	Railroads.	Completed Miles, Number,	Required Miles, Number,
61 62 63 64 65	Toledo & South Haven Traverse City Wabash Wisconsin Central Detroit Union Railroad Depot & Station Co	158.20	25.00 1.50 3.17
	Total for commercial roads	8,946.58	2,281.11
1 2 8	Rear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River		27.00
5	Hecla & Torch Lake Hobert & Manistee River	15.00	
7 8 9	Lake County Manistee & Luther North Branch & Sauble River		
	Total for ore and forest roads	24.00	27.00
	Total for all roads	8,970.58	2,908.11

#### 15 B.—PERMANENT WAY.—CONTINUED.

-		Rei	newal of Ti	mber Culve	rte.
Line No.	Railroads.	With Stone or Iron Pipe. Number.		With Timber, Number,	Total Number Renewed,
1 2 8	Battle Creek & Sturgis Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk Chicago, Kalamasoo & Saginaw				
4 5 6	Chicago & Northwestern				
7 8 9	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cin., Jack & Mack., W. H. Brown, Receiver Cincinnati, Wabaah & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee		7		7
11 12	Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee	18		11	24
18 14 15	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit. Saginaw & Western Duluth, South Shore & Atlantic.	2	29		81
16 16 17 18	Sagnaw & Western Sulth Shore & Atlantic Marquette, Houghton & Ontonagon Marquette & Western			•	
19 20 21	Flint & Pere Marquette Manistee Port Huron & Northwestern	I	1	I	l
22 28 24 25	Sagnaw & Clare County. Sagnaw & Mt. Pleasant Frankfort & Southeastern. Grand Banids & Indiana		8		
26	Hancock & Calumet				

#### PERMANENT WAY.—CONTINUED.

			Renewals.				tenance.	Main	
N.		Ties,		New rails laid in Mich.		Average No.	Average	Track	Trestles replaced
9	Average per mile in Mich. No.	In Michigan, No.	Entire Line. No.	Miles of Track,	Tons,	of men to each section,	length of sections. Miles.	Sections in Michigan, Number,	work. Linear feet.
6	83	3,042	8,042			2	6.00	6	
6: 6: 6:	888 4,879	80,906 60,222	148,832	2.57 1.45	259 18	5 7	6.66 6.87	12 2	
	859	2,868,086	4,792,495	775.95	59,981	4	5.58	1,196	6,118.50
1						4	18.00	1	
8 4	200	2,000	2,000			8 5	10.00 12.00	1 1	
5		2,000	2,000			6	2,00	8	
6 7 8 9	2,700	12,000	12,000			6 4 4	9.24 11.00 10.00 10.00	1 1 5 1	
	109	16,000	16,000			4.87	10.44	14	
	852	2,884,086	4,792,495	775,95	59,981	4.21	5.58	1,210	6,118.50

# PERMANENT WAY.—CONTINUED.

				lges.	New Brid			
,	Total		nation.	Combi	Stone.	Iron or	den.	Woo
T ine No	length, linear feet.	Total Number,	Length, linear feet.	Number.	Length, linear feet.	Number,	Length, linear feet,	Number.
				•••••			•••••	
	878	8					878	8
	2,487	18					2,487	13
1 1 1								
1 1 1	651	7			179	1	478	6
1 1								
1 2	1,979	12	260	1	1,097	8	622	8
1 2 2 2 2 2 2 2 2								
2	1,945	27	1,801		144			

# MICHIGAN RAILROAD RETURNS.

#### 15 B.—PERMANENT WAY.—CONTINUED.

		Rei	newal of Ti	mber Culve	ts.
Line No.	Railroads.	With Stone or Iron Pipe. Number.	With Sewer Pipe. Number.	With Timber, Number,	Total Number Renewed,
27	Lake Shore & Michigan Southern System  Detroit, Hilladale & Southwestern  Detroit, Monroe & Toledo  Fort Wayne & Jackson  Kalamazoo, Allegan & Grand Rapids  Kalamazoo & White Pigeon  Northern Central Michigan			51	51
27 28 29 80 31 32	Detroit, Hilladale & Southwestern				
8	Detroit, Monroe & Toledo		·		
ã l	Kalamazoo, Allegan & Grand Rapida				
12	Kalamazoo & White Pigeon				
33	Northern Central Michigan				
34 35 36 37 38	Lowell & Hastings				
36					
57   RQ	Mason & Oceana. Michigan Air Line Railway.				;
~					
39	Michigan Central System.  Canada Southern Bridge  Detroit & Bay City  Grand River Valley  Jackson, Lansing & Saginaw  Kalamazoo & South Haven  Michigan Air Line Railroad  Michigan Midland & Canada  Saginaw Rey & Northwestern	50	11	97	15
89 40 41 42 48 44 45 46 47	Canada Southern Bridge				
42	Grand River Valley				
48	Jackson, Lansing & Saginaw				
44	Kalamazoo & South Haven				
45	Michigan Air Line Kailroad				
17	Raginaw Ray & Northwestern				
48	Saginaw Bay & Northwestern				
40	Milmouhee Take Shane & Western	1		1	1
49 50 51	Milwaukee, Lake Shore & Western. Milwaukee & Northern.				
51	Mineral Range				
52 53	Minneapolis, St. Paul & Sault Ste. Marie				
58 54	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie. Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River.	•			
·-	Onvolugon a Diale inver				
55	Pontiac, Oxford & Northern				
56 57	Saginaw, Tuscola & Huron				;
58	Saginaw & Grand Rapida (				1
59	Toledo, Ann Arbor & North Michigan			7	
60	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon.				
61	Tolodo & South Haven	-			
62 68	Toledo & South Haven Traverse City Wabash				
68	Wabash				
64 65	Wisconsin Central Detroit Union Railroad Depot & Station Co				
UJ	Detroit Office Barroad Depot a Station Co				
	Total for commercial roads	99	56	183	33
	ORE AND FOREST ROADS.				
	Donn Loke & Postorn				l
1 2	Buckley & Dongles				
8	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake				
4	Grass Lake & Manistee River				
5					
6	Hobart & Manistee River			.1	
6 7 8	Hobart & Manistee River Lake County Manistee & Luther North Branch & Sauble River				
8	Manistee & Luther			.	
v	North Branch & Baudie Hiver		-	·	
		·			
	Total for ore and forest roads			.	
_	Total for ore and forest roads	-			

a Included with G. R. & I.

#### PERMANENT WAY.—CONTINUED.

Number.   Length, linear feet,   Length, linear feet,   Length, linear feet,   Length, linear feet,   Length, linear feet,   Length, linear feet,   Length, linear feet,   Length, linear feet,   Length, linear feet, lin	Woo	den.	Iron or	Stone.	Combi	nation.		Total
3 520 1 180 1 180 4 649 2 86 6 785 4 816 4 516 41 5,400 12 1,860 2 2,241 82 9,501	Number,	Length, linear feet,	Number.	Length, linear feet.	Number.	Length, linear feet.	Total Number.	length
\$ 520			1	360			1	860
4 849 2 86 6 785  4 816 4 816  4 1 5,400 12 1,800 2 2,241 88 9,501								
4 649 2 86 6 785								
4 649 2 86 6 785								
4 649 2 86 6 785								
4 849 2 86 6 785  4 816 4 816  4 1 5,400 12 1,800 2 2,241 88 9,501								
4 649 2 86 6 785	<del></del>	520					8	520
4 \$16 4 516					1	180	1	180
4 816 4 816 4 816 4 816 4 816								
4 816 4 816 4 816 4 816 4 816								
41 5,400 12 1,800 2 2,241 82 9,501	4	649	2	86			6	785
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501						<del>-</del>		
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501						l		
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501							}	
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501								
41 5,400 12 1,800 2 2,241 82 9,501								
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		·						<b> </b>
	41	5,400	12	1,860	2	2,241	82	• 9,501
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	· · · · · · · · · · · · · · · · · · ·							
41 5,400 12 1,800 2 2,241 82 9,501								

# MICHIGAN RAILROAD RETURNS.

#### 16.-TAXES PAYABLE JULY 1, 1800.

Line No.	Railroads.	Miles of Road Operated in Michigan,
1 2 8 4 5	Battle Creek & Sturgia St. Louis, Sturgis & Battle Creek, Ackerman, Receiver Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk Chicago & Rolamazoo & Baginaw Chicago & Northwestern.	
7 8 9 10 11 12	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cin., Jack & Mack., W. H. Brown, Receiver Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwankee	378.94 172.18 33.40 209.82 a 189.00
13 14 15 16 17 18	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit. Saginaw & Western Duluth, South Shore & Atlantic Marquette, Houghton & Ontonagon Marquette & Western	323.68 314.29 134.43 20.83
19 20 21 22 23 24 25 26	Flint & Pere Marquette.  Manistee Port Huron & Northwestern Saginaw & Clare County. Seginaw & M. Pleasant. Frankfort & Southeastern Grand Rapids & Indiana. Hanoock & Calumet.	\$55.38 20.36
27 27 1/2 28 29 30 31 32 88	Lake Shore & Michigan Southern  Detroit & Chicago  Detroit, Hillsdale & Southwestern  Detroit, Monroe & Toledo  Fort Wayne & Jackson  Kalamasoo, Allegan & Grand Rapids  Kalamasoo & White Pigeon  Northern Central Michigan	8 187.30 62.94 65.20 54.87 44.54 58.42 38.57 61.14
34 85 86 87 88	Lowell & Hastings. Manistee & Northeastern. Manistique Mason & Oceana. Michigan Air Line Railway.	12.00 89.90 40.75 27.00 105.60
89 40 41 42 48 44 45 46 47 48	Michigan Central Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamasoo & South Haven Michigan Air Line Railroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	a 221.00 3.68 151.42 a 88.79 295.10 39.50 100.10 14.68 99.31 47.27
49 50 51 52 58 54	Milwaukee, Lake Shore & Western. Milwaukee & Northern. Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie. Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River.	101.28 60.75 17.00 192.01 \$6.85 46.10
55 56 57 58 59	Pontiac, Oxford & Northern. Saginaw, Tuscola & Huron. Saginaw Valley & St. Louis. Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan. Toledo, Saginaw & Mackinaw. Toledo, Saginaw & Muskegon.	100.20 65.57 85.50 243.00 \$9.20
591/ <u>4</u>	Toledo, Saginaw & Muskegon.	96.00

a Special charter roads. Taxed on stock and debt.

TAXES PAYABLE JULY 1, 1890.—CONTINUED.

Gross Earnings as Reported for Michigan,	Gross Earnings per mile of road operated,	Per cent of Taxation on taxable income.	Total Taxes Assessed for Michigan,	Taxes per mile of road operated in Michigan,	Line No.
\$9,415 28 9,735 98 250,029 11 2,499,985 32 34,830 68 3,016,548 57	\$226 55 221 25 4,211 87 11,188 64 956 74 6,160 69	2 · 2.05 2.64 2.52	\$188 80 194 72 5,126 07 65,858 06 668 61 76,159 09	\$4 28 4 43 96 84 40 294 00 18 75 199 60	1 2 8 4 5
1,258,827 58 261,460 42 94,974 98 108,501 77 487,209 43 1,076,612 71	3,866 39 1,518 14 272 84 3,248 55 2,892 62 5,696 36	2 2 2 2 2 2 2 2.04	25,176 55 5,229 21 989 79 2,170 04 9,744 19 25,171 40	67 38 80 87 5 45 64 96 46 55 133 18	7 8 9 10 11 12
1,131,985 91	8,497 23	2	22,639 72	69 94	13 14 15
561,598 50 1,125,522 90 97,296 18	1,788 51 8,397 11 4,638 15	2 2.52 2.14	11,231 87 28,388 48 2,065 68	35 68 211 18 10 01	15 16 17 18
2,382,279 60	8,782 00	2	46,645 59	70`46 •	19 20
					21 22 29
1,998,279 88 134,657 44	5,614 87 6,618 82	2.28 2.89	45,588 18 8,225 82	114 19 158 41	20 21 22 23 24 25 26
8,684,001 89	19,700 54	1.26	46,748 60 715 15	249 57	-
85,757 60 88,445 41 494,667 54 95,864 09 146,777 00 99,990 88 95,148 51	588 45 591 46 899 40 2,130 31 2,550 66 2,702 45 1,084 40	2 2.55 2 2 2	715 15 768 91 12,653 23 1,917 28 2,985 52 1,992 82 1,922 97	11 86 11 79 231 44 48 04 50 25 54 68 81 45	27 1/4 28 29 30 31 82 83
8,586 14 46,684 52 44,685 99 89,599 80 152,840 45	296 84 1,169 54 1,096 59 1,466 68 1,445 45	2222	71 72 983 29 898 72 792 00 8,052 80	5 96 23 91 21 98 29 35 28 91	34 35 36 37 38
4,329,566 91 1,234 98 769,678 27 304,549 98 1,586,627 22 51,672 08	19,862 29 808 74 5,097 20 3,744 64 5,206 90 1,041 90	8.10 2 2.21 4.90 2.23 2	184,088 20 24 70 17,033 55 14,934 00 34,294 82 1,063 44	606 71 6 75 112 49 178 28 116 22 25 16	40 41 42 48 44 45 46 47
805,492 88 9,814 20 182,627 66 548,784 66	2,802 68 654 28 1,490 19 11,568 82	2 2 2 2.65	5,109 85 196 28 2,652 55 14,421 24	56 00 13 89 29 70 30 51	45 46 47 48
544,128 94 288,875 42 109,775 06 1,689,380 84 187,548 57 5,780 43	5,872 51 8,883 85 6,457 85 2,084 65 4,268 75 124 30	2.25 2.38 2.06 2.06	12,272 67 4,667 51 2,618 25 8,110 78 8,252 31 114 61	121 17 76 83 153 70 42 24 88 26 2 49	49 50 51 52 58 54
102,068 27 106,984 22 96,813 70	1,020 68 1,607 09 2,146 55	2 2 2	2,041 87 2,139 68 1,986 27	20 87 82 14 54 54	55 56 57
890,191 12 105,799 17 91,870 24	8,529 87 956 98	2 2 2 2	17,908 82 2,115 98 1,887 40	73 27 58 97 19 14	58 59 591/4 60

#### 16.-TAXES PAYABLE JULY 1, 1890.-CONTINUED.

Line No.	Railroads.	Miles of Road Operated in Michigan,
61 62 68 64 65	Toledo & South Haven	36.60 26.00 79.10
	Total for commercial roads	6,543.35
1 2 8 4	Bear Lake & Eastern. Colfax & Big Rapids. Crawford & Manistee River. Grass Lake & Manistee River.	18.00 10.00 10.00 12.00
5 6 7 8 9	Hecla & Torch Lake Hobert & Manistee River Lake County Manistee & Luther North Branch & Sauble River	7.50 9.24 11.00 87.50 10.00
	Total for ore and forest roads.	125.24
	Total for all roads	6,668.59

#### 17.—ACCIDENTS—GENERAL STATEMENT.

			Kil	led.	
Line No.	Railroads.	Passen- gers.	Em- ployes,	Others,	Total.
1 2 8 4 5 6	Battle Creek & Sturgis. Bay City & Battle Creek. Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk. Chicago & Kalamazoo & Saginaw. Chicago & Northwestern.		· 1 8	1 3	2 6
7 8 9 10 11 12	Chicago & West Michigan Cincinnati, Jackson & Mackinaw—W. H. Brown, Rec. Cincinnati, Jackson & Mackinaw—W. H. Brown, Rec. Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee		1	7 1 2 8 4	9 1 2 1 1 5
18 14 15 16 17 18	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit. Saginaw & Western. Duluth, South Shore & Atlantic. Marquette, Houghton & Ontonagon. Marquette & Western.	2	3	6	11
19 20 21 22 28 24 25 26	Flint & Pere Marquette.  Manistee Port Huron & Northwestern Saginaw & Clare County. Saginaw & Mt. Pleasant. Frankfort & Southeastern. Grand Rapids & Indiana. Hancock & Calumet.		2		

# TAXES PAYABLE JULY 1, 1890.—CONTINUED.

Gross Earnings as Reported for Michiga		Gross Earnings per mile of road operated,	Per cent of Taxation on taxable income,	Total Taxes Assessed for Michigan,	Taxes per mile of road operated in Michigan,	Line No.
\$24,182 9 47,023 0 426,518 1	4	\$660 74 1,808 77 4,571 98	2 2 2.25	\$483 66 940 46 9,681 54	\$13 21 34 64 121 77	61 62 68
127,752 7	i		2.50	8,193 81		6 <u>4</u> 65
<b>\$34,2</b> 01,117 8	8	<b>\$5,228</b> 85	2.19	<b>\$749,764</b> 58	\$114 58	
10,708 6 1,983 9 14,785 8 12,787 8	8	594 92 198 39 1,478 59 1,085 44	2 2 2 2 2	214 17 39 68 294 72 255 75	11 89 3 96 29 47 21 81	1 2 3
97,454 8 92,281 7 20,061 0 187,888 2 12,389 4	8	12,993 94 8,498 69 1,823 78 2,146 69 1,238 94	2.69 2 2 2 2 2	2,623 64 645 68 401 22 2,747 76 247 79	849 82 68 79 96 47 73 27 24 77	5 6 7 8
\$889,790 7	6	\$2,718 11	2.19	\$7,470 36	<b>\$59 65</b>	
\$34,540,908 !	9	. \$5,187 42	2.19	\$757,234 94	\$118 52	

# ACCIDENTS.—CONTINUED.

	Inju	red.			Responsi Accie	bility for dent.				
Passen- gers,	Em- pioyes,	Others,	Total,	Total Accidents,	Clearly Accidental.	From negligence or lack of caution,	Trespass- ers and Tramps,	Drunk,	Suicides,	Lime No.
10	1 25 1 24	2 5	3 40 1 81	5 48 1 50	2 19	8 27 49	2 1	8	1 1 1	1 2 3 4 5
	8 8 2 2 2	2 1	10 9 8 2 2 10	19 10 5 8 7	7 2 1 1 8 2	12 8 4 2 4 12	3 2 2	1 1		7 8 9 10 11 12
	9	4	13	14 24	5	18	6	8		18 14 15 16 17 18
	85	6	41	56	7	49	10	4		19 20 21 22 28 24 25 26
ii	19	5	25	81	14	17	. 3	i		25 26

# 17.—ACCIDENTS.—CONTINUED.

			Ki	lled.	
Line No.	Bailroads.	Passen- gers,	Em- ployes,	Others,	Total.
27 28 29 90 81 82	Lake Shore & Michigan Southern System  Detroit, Hillsdale & Southwestern  Detroit, Monroe & Toledo  Fort Wayne & Jackson  Kalamasoo, Allegan & Grand Bapids  Kalamasoo & White Pigeon.  Northern Central Michigan		7	13	20
29	Detroit, Monroe & Toledo				
30	Fort Wayne & Jackson				
82	Kalamazoo, Allegan & Grand Gapids				
23	Northern Central Michigan				
84 85 86 87 88	Lowell & Hastings Manistee & Northeastern			2	<del>-</del>
86	Manistique				
87 88	Mason & Oceana. Michigan Air Line Railway		1	1	2
80	Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern. Toledo, Canada Southern & Detroit	2	18	29	45
89 40 41 42 48 44 45 46 47 48	Canada Southern Bridge	<del>-</del>	ļ	ļ	
41	Detroit & Bay City.				
10	Jackson, Lansing & Raginaw				
44	Kalamazoo & South Haven				
45	Michigan Air Line R. R.				
17	Reginer Rev & Northwestern				
48	Toledo, Canada Southern & Detroit.				
49	Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River		2	8	5
50   51	Mineral Range		1 1		
50 51 52	Minneapolis, St. Paul & Sault Ste. Marie				
58	Muskegon, Grand Rapids & Indiana	A			
54	Untonagon & Brule River				
55	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron. Saginaw Valley & St. Louis. Saginaw & Grand Rapids. Toledo, Ann Arbor & North Michigan. Toledo, Saginaw & Muskegon.				
57	Saginaw Valley & St. Lonia			- 1	
58	Saginaw & Grand Rapids				
56 57 58 59 60	Toledo, Ann Arbor & North Michigan			6	6
- 1	Toledo, Saginaw & Muskegon				
61 62 68 64	Toledo & South Haven Traverse City Wabash Wisconsin Central Detroit Union Railroad Depot & Station Company				
AR I	Wahash	•	1	11	
64	Wisconsin Central		-		
65	Detroit Union Railroad Depot & Station Company				
	Total for commercial roads	8	59	109	176
	ORE AND FOREST BOADS.				
1	Bear Lake & Eastern				
2 8	Buckley & Douglas	b			
3 4	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River				
_	· · · · · · · · · · · · · · · · · · ·				
5	Hecla & Torch Lake Hobart & Manistee River			1	1
6	Hobart & Manistee Kiver				
8	Lake County		i		ī
	Total for ore and forest roads		1	1	2
-	Total for all roads.	• 8	60	110	178

a Included with Grand Rapids & Indiana.

#### ACCIDENTS.—CONTINUED.

	Inj	ared.			Respons Acc	ibility for ident.			
Passen- gers,	Em- ployes,	Others.	Total.	Total Accidents,	Clearly Accidental	From neg- ligence or lack of caution,	Trespass- ers and Tramps.	Drunk.	Suicides.
2	16	5	28	48	4	39	. 9	2	
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26	282	86	894	572	117	455	97	28	8

b Absorbed by Manistee & Northeastern.

#### 17 A.-ACCIDENTS-CLASSIFIED.

			C	ollis	ions	•			Cot	ıplir	g C	ers.	
	Rauroads.	H	illed		Ir	jure	d.	J	illed		Î	jure	d,
	Igalii Osus.	Passengers.	Employes.	Ę.	Рамендетя.	Employes.	£	Passengers.	Employes.	J.	Passengers.	Employes.	Ę
		Page	E.	Others.	Page	Em	Others.	Page	Em	Others.	Page	Eun	Others
	Battle Creek & Sturgis Bay City & Battle Creek Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago & Northwestern											-	
Ì	Chicago, Detroit & C. G. T. Junction					<u>-</u> -						12	
١	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw											-	
Ì	Chicago & Northwestern											11	
	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cin., Jackson & Mack. W. H. Brown, Receiver. Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena. Detroit, Grand Haven & Milwaukee.											5	
1	Cincinnati, Jackson & Mackinaw.											4	1
١	Cin., Jackson & Mack., W. H. Brown, Receiver.											1	-
1	Detroit, Bay City & Alpena											2	1
Į	Detroit, Grand Haven & Milwaukee												-
	Detroit, Lansing & Northern  Grand Rapids, Lansing & Detroit  Saginaw & Western  Duluth, South Shore & Atlantic  Marquette, Houghton & Ontonagon  Marquette & Western											2	
1	Grand Rapids, Lansing & Detroit												-
	Duluth, South Shore & Atlantic.											2	L
	Marquette, Houghton & Ontonagon												-
	Marquette & Western												1
	Flint & Pere Marquette					2			1			22	-
	Manistee Port Huron & Northwestern Saginaw & Clare County Saginaw & Mt. Pleasant Frankfort & Southeastern Grand Rapids & Indiana Hancock & Calumet												E
	Saginaw & Clare County												-
	Frankfort & Southeastern											-	-
	Grand Rapids & Indiana					2						13	-
	Hancock & Calumet												-
	Lake Shore & Michigan Southern System)				- <i>-</i>				2			12	-
1	Detroit, Hillsdale & Southwestern												-
)	Fort Wayne & Jackson										<b>-</b>		-
:	Kalamazoo & White Pigeon												1
1	Lake Shore & Michigan Southern System Detroit, Hilledale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamasoo, Allegan & Grand Rapids. Kalamssoo & White Pigeon. Northern Central Michigan												-
ļ	Lowell & Hastings	1		l		l		İ					
3	Manistee & Northeastern												-
•	Mason & Oceana												1
3	Lowell & Hastings. Manistee & Northeastern. Manistique Mason & Oceana Michigan Air Line Railway.												-
)	Michigan Central System.  Canada Southern Bridge  Detroit & Bay City.  Grand River Valley.  Jackson, Lansing & Saginaw  Kalamazoo & South Haven.  Michigan Air Line R. R.  Michigan Midland & Canada.  Saginaw Bay & Northwestern.  Toledo, Canada Southern & Detroit.			1		l			1	l		85	1
١.	Canada Southern Bridge												F
	Grand River Valley												ŀ
1	Jackson, Lansing & Saginaw												
	Michigan Air Line R. R.												ŀ
1	Michigan Midland & Canada.								·				1
3	Toledo, Canada Southern & Detroit												1
	Totalog Calabia Governor & Destroy					1	1			1			1
9	Milwaukee, Lake Shore & Western Milwaukee & Northern Mineral Range					2			1 1			10	1-
L	Mineral Range												
8	Minneapolis, St. Paul & Sault Ste. Marie. Muskegon, Grand Rapids & Indiana. Ontonagon & Brule River.	·  <u>-</u> -									.	3	1-
Ĺ	Ontonagon & Brule River	ļ											1
5				1		1	1	1	1	1	1	*	1
5	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon						1					2	1
Ž	Saginaw Valley & St. Louis		.					·	.	.			- -
9	Toledo, Ann Arbor & North Michigan											2	1
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a Included with the Grand Rapids & Indiana.

#### ACCIDENTS.—CONTINUED.

I	Dei	rail	me	nts.		F	allin	g f	rom	Trai	ins.		]	Fre	gs			Gett	ing	on ar	id of	Tra	ins.	Hi	gh	way	Cr	oss	ing
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Fundana	contrologo.	Others.	Passengers	Employes.	Others.	Passengers	Employes.	Others.	Passengers	Employes.	Others.	Passengers	Employes.	Others.	Passengers	Employee.	Others.	Passengers	Employes.	Others.	Passengers	Employes.	Others.	Passengers	Employes.	Others.	Passengers	Employes.	Others.
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b Absorbed by the Manistee & Northeastern.

#### 17 A.-ACCIDENTS.-CONTINUED.

			(	Colli	sion	8.			Co	apli	ng C	ars.	_
je L	Railroada.	]	Killed	1,	I	njure	d,	-	Kille	1.	1	njure	d,
Line Number.	ranifostis.	Passongers.	Employee.	Others.	Passengers.	Employes.	Others.	Passengers.	Employes.	Others.	Passengers.	Employee,	Others.
61 62 63 64 65	Toledo & South Haven	a			I							5 2	
	Total for commercial roads		2		8	8			7			152	
1 2 8 4	Bear Lake & Eastern Buckley & Douglas. Crawford & Manistee River Grass Lake & Manistee River.	ъ											
5 6 7 8	Hecla & Torch Lake Hobart & Manistee River Lake County Manistee & Luther												
	Total for ore and forest roads												
	Total for all roads		2		8	8			7			152	

#### 17 B.-ACCIDENTS CLASSIFIED.-CONTINUED.

			M	iscel	lane	DUB.	-	Ov	erhe	ed C	betr	ucti	ons.
er.		-	Kiile	1.	1	njure	d,		Kille	1.	1	njure	d.
Line Number.	Railroads.	Passengers.	Employee.	Others.	Passengers.	Employee.	Others.	Passengers.	Employee.	Others.	Passengers.	Employee.	Others.
1 2 8 4 5 6	Battle Creek & Sturgis.  Bay City & Battle Creek. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk. Chicago, Kalamasoo & Saginaw. Chicago & Northwestern.		1 			1 7						2	
7 8 9 10 11 12	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cin., Jack. & Mack., W. H. Brown, Receiver Cincinnati, Wabash & Michigan Detroit, Bay City & Alpena					2 8 1 1	1						
18 14 15 16 17 18	Detroit, Lansing & Northern Grand Rapids, Lansing & Detroit Saginaw & Western Duluth, South Shore & Atlantic Marquette, Houghton & Ontonagon Marquette & Western		i	1		8 	i						
19 20 21 22 28 24 25 26	Flint & Pere Marquette.  Manistee Port Huron & Northwestern Saginsw & Clare County Saginsw & Mt. Pleasant. Frankfort & Southeastern Grand Rapids & Indiana. Hancock & Calumet					•	•						•

# ACCIDENTS.—CONTINUED.

_	D	er	ailm	ents.	,	F	allir	g :	rom	Tra	ins.			Fr	ogi	3.		Get	ting	on a	nd of	Tr	ains.	Н	igl	way	Cı	06	sing	
E	Ше	d.	In	jured	1,	1	Killed	ı,	D	njure	đ.	K	ille			jur		1	Killed	ı,	r	njure	d,	1		ed,	D	aju	red,	ä
Passemens	Employee.	Others.	Passengers	Employee.	Others.	Passengers	Employee.	Others.	Passengers	Employee.	Others.	Passengers	Employee.	Others.	Passengers	Employes.	Others.	Passengers	Employee.	Others.	Passengers	Employee.	Others.	Passengers	Employee.	Others.	Passengers	Employee.	Others.	Line Number.
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#### ACCIDENTS.—CONTINUED.

Tr	esps	1986I	8 O2D	Trai	ns.	Tr	евра	88676	on '	Trac	ks.	Tot	al Ki	الماا	Trete	l Tod		Tota	l Can	ualties,	ja ja	
K	illed	l.	_ b	ajure	d.	1	Killed	<b>.</b>	I I	njure	d.		- AI		100				4 Cas		Na Na	١.,
Passengers.	Employee.	Others.	Passengers.	Employee.	Others.	Passengers.	Employee.	Others.	Passengers.	Employee.	Others.	Passengers.	Employee.	Others.	Passengers.	Employee.	Others.	Passengers.	Employee.	Others.	Grand Total,—Number,	Line Number.
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		8						7			4		5	10		85	6	  	40	16	56 	19 20 21 22 28 24 25

#### 17 B.-ACCIDENTS CLASSIFIED.-CONTINUED.

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		1	Killed	١.	L	njure	d.	]	Killed	1.	L	ujure	d.
	Railroads.	Passengers.	Employee.	Others.	Passengers.	Employee.	Others.	Passengers.	Employee.	Others.	Развепдетя.	Employee.	Othors
	Lake Shore & Michigan Southern System  Detroit, Hillsdale & Southwestern  Detroit, Monroe & Toledo  Fort Wayne & Jackson  Kalamazoo, Allegan & Grand Rapids  Kalamazoo & White Pigeon  Northern Central Michigan		2	1		2			1				
١	Detroit, Monroe & Toledo												
ı	Kalamazoo Allegan & Grand Rapids												
	Kalamazoo & White Pigeon												-
١	Northern Central Michigan												
	Lowell & Hastings Manistee & Northeastern Manistique Mason & Oceana Michigan Air Line Railway								l				L
l	Manistique								- <i>-</i>				-
	Mason & Oceana											<b>-</b>	-
	Michigan Air Line Railway												1-
	Michigan Air Line Railway  Michigan Central System Canada Southern Bridge. Detroit & Bay City. Grand River Valley Jackson, Lansing & Saginaw. Kalamazoo & South Haven. Michigan Air Line R. R. Michigan Midland & Canada. Saginaw Bay & Northwestern. Toledo, Canada Southern & Detroit.	1	10		l	10	8				ł		١
	Canada Southern Bridge.												1:
	Grand River Valley												-
	Jackson, Lansing & Saginaw												ŀ
	Michigan Air Line P. P.	· <b>-</b>											-
	Michigan Midland & Canada												-
	Saginaw Bay & Northwestern												1
	Toledo, Canada Southern & Detroit											<b></b>	-
	Milwaukee, Lake Shore & Western		ļ			18			l	<b> </b>			L
	Milwaukee & Northern												-
	Minneapolis, St. Paul & Sault Ste. Marie					12							ŀ
	Milwaukee, Lake Shore & Western	a											Ĺ
	Oncome to Division in Ver												ŀ
	Pontiac, Oxford & Northern												ŀ
	Saginaw Valley & St Louis												ŀ
	Saginaw & Grand Rapids.					:-							-
	Pontiac, Oxford & Northern					1					- <b>-</b>		-
	Toledo & South House												ľ
	Traverse City												-
	Wabash					i							ľ
	Toledo & South Haven					1	1						-
													ŀ
	Total commercial roads	1	20	4		77	11					2	
	ORE AND POPPET DOADS		1		}	ĺ	1	ŀ					Г
	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River Hecla & Torch Lake Hobart & Manistee River				ĺ		1						ı
	Buckley & Douglas												-
	Grass Lake & Manistee River												1-
	Hecla & Torch Lake											•	ŀ
	Hohart & Manistee River		-	İ	l								-
	Lake County												-
	Hobart & Manistee River Lake ('ounty Manistee & Luther North Branch & Sauble River												1
	TOTAL DIGUIC O DOUGH INVES												-
•	Total ore and forest roads												-
-	Total for all roads				<u> </u>	77		_	—	-			-
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a Included with Grand Rapids & Indiana.

## ACCIDENTS.—CONTINUED.

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Line Number	Grand TotalNumber.	Others.	Employee.	Passengers.	Others.	Employee.	Passengers.	Others.	Employee.	Passengers.	Others.	Employee.	Развепдега.	Others.	Employes.	Passengers.	Others.	Employee.	Passengers.	Others.	Employee.	Passengers.
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## 17c.-CLASSIFICATION OF EMPLOYES,

	,		<del></del>	_
Line No.	Railroads.	Baggage- men. Number.	Brakemen.	Conductors.
3			1	
1 2 8	Battle Creek & Sturgis. Bay City & Battle Creek. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk. Chicago & Halmasco & Saginaw. Chicago & Northwestern.			******
8	Chicago Detroit & C. G. T. Junction			**********
ă	Chicago & Grand Trunk	2	14	
5	Chicago, Kalamazoo & Saginaw	<b></b>		
6	Chicago & Northwestern		10	
7	Chicago & West Michigan	l		
8	Cincinnati Jackson & Mackinaw		4	
9	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw, W. H. Brown, Receiver Cincinnati, Wabsah & Michigan Detroit, Bay City & Alpena Detroit, Grand Haven & Milwaukee		ī	7
10	Cincinnati, Wabash & Michigan		3	
11	Detroit, Bay City & Alpena		8	
12	Detroit, Grand naven & milwaukee			
18	Detroit, Lensing & Northern.	1	5	
14	Grand Rapids, Lansing & Detroit.			
15	Saginaw & Western )			
16	Detroit, Lansing & Northern		4	
17 18	Margnette & Western			*******
19	Flint & Pere Marquette		22	1.5
19 20 21 22 23 24 25 26	Flint & Pere Marquette.  Manistee Port Huron & Northwestern Saginaw & Clare County Saginaw & Mt. Pleasant Frankfort & Southeastern Grand Rapids & Indiana. Hancock & Calumet.			
Z1	Port Huron & Northwestern			
22	Saginaw & Clare County			
24	Frankfort & Southeastern			
25	Grand Rapids & Indiana		7	7
26	Hancock & Calumet			
97	Lake Shore & Michigan Southern System Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamasoo, Allegan & Grand Rapids Kalamasoo & White Pigeon Northern Central Michigan	i	18	
28	Detroit, Hilladale & Southwestern			
29	Detroit, Monroe & Toledo			
80	Fort Wayne & Jackson			
27 28 29 30 31 82	Kalamazoo, Allegan & Grand Bapids			**********
22	Northern Central Michigan			
84	Lowell & Hastings Manistee & Northeastern			
35	Manistee & Northeastern			***********
85 86 87 88	Manistique. Mason & Oceana. Michigan Air Line Railway.		1	
38	Michigan Air Line Railway			
		_		
39 40 41 42 48 44 45 46 47 48	Michigan Central System Canada Southern Bridge Detroit & Bay City Grand River Valley Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line Railroad Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	1	25	2
40	Canada Southern Bridge			
12	Grand River Valley			
48	Jackson, Lansing & Saginaw			
44	Kalamazoo & South Haven			
45	Michigan Air Line Railroad			
40	Michigan Midland & Canada			*******
48	Toledo Canada Sonthern & Detroit			
	201040) 044444 00444			***********
49	Milwaukee, Lake Shore & Western Milwaukee & Northern Minneral Range Minnespolis, St. Paul & Sault Ste. Marie Muskegon, Grand Rapids & Indiana Ontonagon & Brule River		7	
50 51	Milwaukee & Northern		8	********
52	Minneapolis, St. Paul & Sault Ste. Maria		Ř	
58	Muskegon, Grand Rapids & Indiana.			
54	Ontonagon & Brule River			
	To No. 1			
55	Pontiac, Uxford & Northern		1	*********
50 57	Saginaw Valley & St. Louis		2	
58	Saginaw & Grand Rapids			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
55 56 57 58 59	Toledo, Ann Arbor & North Michigan		8	**********
60	Toledo, Saginaw & Muskegon	B		
60	Pontiac, Öxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis Saginaw & Grand Rapids Toledo, Ann Arbor & North Michigan Toledo, Saginaw & Muskegon	a		

a Included with G. R. & I.

# TABULAR STATEMENT.

## KILLED AND INJURED.

Engineers, Number,	Firemen.	Laborers, Number,	Shopmen, Number,	Yardmen, Number,	Unclassified, Number,	Total Killed, Number,	Total Injured, Number.	Total, Number,	Line No.
4	i	8	1	9	2 1 1	1 3	1 25 1 24	2 28 1 82	1 2 3 4 5 6
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						1		i	34 85 86 87 88
4	8	9	4	26	62	49	87	196	89 40
									89 40 41 42 43 44 45 46 47 48
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	5	5					19	19	49 50 51 52 58 54
					ž	<u>i</u>	1 8	1 4	55 56 57 58 59 60
							8	8	59 60

# 17c.—CLASSIFICATION OF EMPLOYES,

Line No.	Railroads.	Baggage- men, Number,	Brakemen.	Conductors.
61 62 63 64 65	Toledo & South Haven Traverse City Wabash Wisconsin Central Detroit, Union R. R. Depot & Station Co.	•		
	Total commercial roads	8	145	21
1 2 8 4	Bear Lake & Eastern Buckley & Douglas Crawford & Manistee River Grass Lake & Manistee River			
5 6 7 8	Hecla & Torch Lake. Hobert & Manistee River. Lake County Manistee & Luther.		1	
	Total ore and forest roads		1	
	Total for all roads.	8	146	21

# TABULAR STATEMENT.

## KILLED AND INJURED.

Engineers. Number.	Firemen. Number.	Laborers. Number.	Shopmen, Number,	Yardmen, Number,	Unclassified, Number,	Total Killed, Number,	Total Injured, Number,	Total Number.	Line No.
									61 62
	1	1	5	8		1		8 4	61 62 63 64 65
17	28	39	11	60	82	91	815	406	
									1 2
									8 4
							1	i	5 6 7 8
							1	1	-
17	28	89	11	60	82	91	816	407	

18.—COMPARATIVE SUMMARY FROM ANNUAL REPORTS FOR 1888 AND 1889.

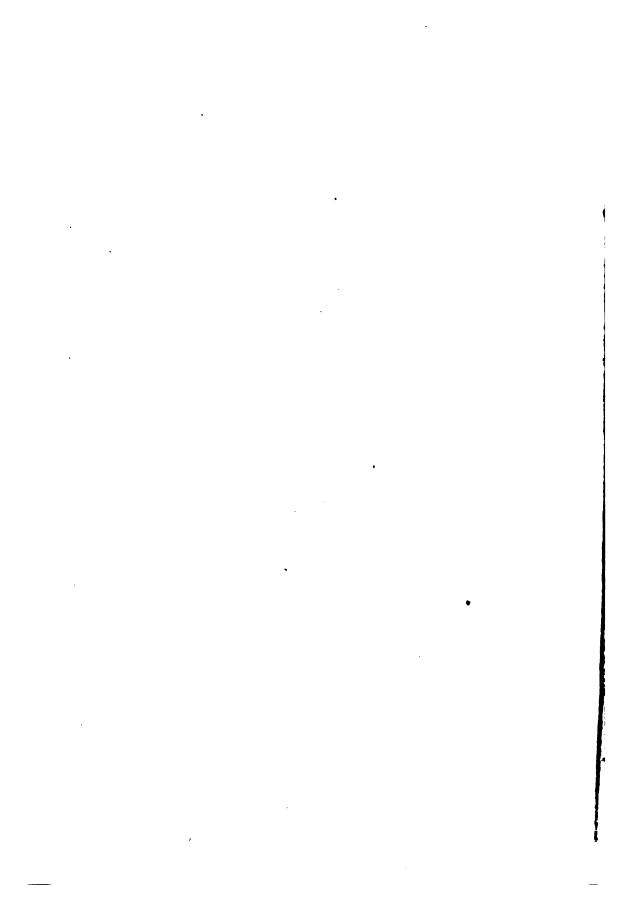
	1888.	1889.	Increase.	Decrease.	Per Cont of Increase.	Per Cent of Decrease.
Length of roads owned Length of roads operated Length of roads operated Length of roads in Michigan Length of second track in Michigan Computed as single track in Michigan	11,645.58 113,700.42 6,411.68 120.00 1,644.88 8,176.49	12, 460.88 14, 722.61 6, 732.61 120.00 1, 775.44 8,654.99	885.85 1,022.19 847.89 180.61 478.50		7.17 7.46 5.48 5.48 5.88	
Capital stock paid in. Paid in per mile of road. Total funded debt. Total debt. Total debt for mile of road. Total stock and debt for mile of road. Total stock and debt per mile of road. Total cote to road an inpent. Cost per mile of road. Proportion of cost for Michigan.	\$290.577,096.00 24,396.01 24,396.01 25,377,359.92 22,604,096.72 612,181,971.81 549.222,300.27 246,417,879.72	\$55.940, 772.84 20,008.21 88.883, 187 01 421,708,577 00 744,014,225 72 660,000,646.85 265,720,770.88	\$66.571.886.75 17.583.718 17.583.718 96.096.540 8.444 181.882.52 140,724,856 17,908,891 17,908,891	74. 82 83. 84.	22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	17.50
Exemings: Presenger Express Mail Meil Freight Other sources	#21,899,494 05 1,612,771 25 2,001,812 57 54,040,875 86 159,985 67	\$23,422,870 24 1,680,429 28 2,491,796 00 56,132,921 86 451,706 20	\$1,618,876 19 48,158 08 400,485 48 5,082,546 00 291,752 58		7.59 2.96 19.15 9.42 188.82	
Total from operation	\$79,778,407 40	\$87,219,726 28	\$7,446,818 88		9.84	
Per mile of road Per train mile, passenger Per train mile, freight. Per train mile for all trains earning revenue.	\$5,809 64 1 10 1 12.7 1 11.7	\$5,924 22 1 04,04 1 88,08 1 22,19	\$114 58 0 20.32 0 10.49	\$6.005.98	1.97	
In excess of operating expenses. Receipts in addition to traffic earnings	\$24,771,546 % 1,255,017 08	\$22,604,871 8\$ 926,865 10		\$2,166,675 22 328,151 08		8.74
Total revenue from all sources	\$81,028,424 48	\$88,146,594 88	\$7,118,069 ¥5		8.78	
					i	

14.88 28.94 22.73	17.47	29'6	5.07	14.34 6.80	10.86	12.70	11.98	14.32
<b>3838</b>	11	6	980.10 98.10	70	01	ģì	11 11 \$0 00.27	11 14 14 80 00.040
\$1,720,788 26 2,166,675 22 3,965,078 52 1,644,446 44	\$9,612,994 10	\$385 13 0 07 14 5 18	\$948,899 57	\$10,561,423 67 \$54 90 0 14,08 4,23	8,889,696 4,658,354	8,048,052	8,669,944 121,506,716	8,884,001 975,944,990
\$18,325,210 77 10,321,906 28 82,109,857 56 8,857,880 39	\$84,614,854 95	\$4,888 01 0 95.94 74 06	\$19,621,896 73 1,382 77 0 27.49 80.36	\$84,236,741 68 5,720 78 1 30.83 96.58	26,675,694	71,878,208	31,138,050 1,139,527,824 \$0.08 \$0.08	54,569,284 7,790,632,208 142.76 \$0 00.754
\$11,604,422 51 8,030,226 35 28,144,779 04 7,213,439 96	\$55,001,860 85	\$4,002 88 86.8 68.90	\$18,673,487 16 1,362 91 29.47 28.40	\$73,675,318 01 5,365 79 1 16.25 92.35	28, 285, 996 40,044, 160	63,390,156	27,436,106 1,018,018,108 \$7.10 \$0 02.158	46,735,178 6,814,787,278 \$0 00,794
Operating Expenses: Maintenance of way, Maintenance of rolling stock. Conducting transportation. General expenses and taxes.	Total operating exvenses and taxes	Per mile of road Per train mile Per cent of carnings	Interest and rentals—total Per mile of road operated. Per train mile Per cent of earnings.	Operating expenses, interest and rentals Per mile of road operated Per train mile Per cent of earnings	Train Mileage: Passenger Freight	Total earning revenue.	Traffic, Passenger: Whole number passengers carried. Whole number carried one mile. Average distance traveled by each—miles. Average rate of fare per mile.	Traffic, Freight: Total tons moved. Total moved one mile. Average ton haul—miles. Average rate per ton per mile.

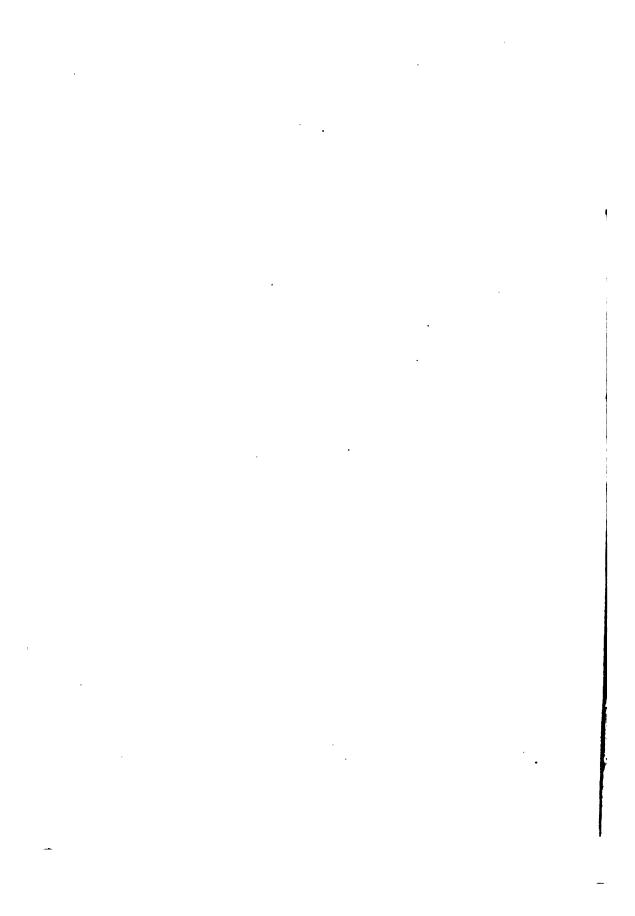
19.—COMPARATIVE SUMMARY OF ANNUAL REPORT FOR FIVE YEARS, 1885 TO 1889.

1866 1887	1886	1988	1887	1888	1880
Total length of railroad and branches,—miles Total length of railroads in Michigan,—miles Total length of double track,—miles Total length of sidings,—miles	11,611.57 5,247.48 6,010 1,152.90	11,164.34 5,577.68 89.00 1,292.80	11,982,91 5,788,41 121,10 1,430,68	11,645.58 6,411.66 120.00 1,644.88	12,490,28 6,759,55 120,00 1,775,44
Capital stock paid in Capital stock raid in per mile of road	\$280,143,235 34 24,168 00	\$276,948,554 00 24,797 12	\$262,126,928 87 21,986 71	\$289,577,986 09 24,886 01	\$355,949.272 R4 20,508 21
Total funded debt. Total unfunded debt. Total debt. Total debt per mile of road.	880,696,148 28 28,546,902 08 31,546,903 08	228,228,168 33 25,170,554 35 858,396,717 68 81,664 06	281,021,980 63 25,434,821 40 286,456,902 03 24,006 00	236,797,359 92 28,506,676 90 322,604,036 72 25,312 13	\$83,363,187 01 2x,340,390 19 421,708,577 20 38,757 00
Total stock and debt.  Total stock and debt per mile of road.	630,076,025 02 54,284 07	630,240,271 68 56,451 18	548,588,730 90	612,181,972 81 50,178 14	744,014,225 72 59,535 55
Total cost of reads and equipment. Total cost of reads and equipment per mile. Proportion of cost for Michigan.	579,582,990 14 49,996 00 220,670,912 52	579,945,425 48 51,946 23 218,864,228 97	499,601,490 52 41,031 00 240,157,086 90	549,282,290 27 47,166 80 248,417,879 72	690,006,646 56 55,207 63 265,720,770 83
Rarnings: From passengers From mails From mails From Express From Creight From other sources	\$19,782,683 96 1,773,708 63 2,167,120 07 52,742,287 31 485,082 88	\$21,275,478 05 1,884,558 11 2,044,372 64 57,187,406 08 422,186 64	\$21,382,606.38 1,674,818.38 1,548,983.04 56,672,882.85 76,982.10	\$21,889,494 05 2,091,312 57 1,612,271 25 54,040,575 86 159,888 67	\$23,482,870 \$4 2,481,788 00 1,680,429 98 50,135,921 86 451,706 20
Total earniugs	\$76,952,864 80	\$82,884,085 47	\$81,556,252 85	\$79,778,407 40	\$87,219,726 28
Earnings per mile of road  Earnings per train mile—passenger trains  Earnings per train mile,—freight trains  Earnings per train mile,—all trains	\$5,797 00 0 85.54 1 86 1 24.9	\$6,047 06 1 07 1 51.88 1 84.42	\$6,574 95 1 18.8 1 52.6 1 40.48	45,809 64 1 10 1 12.7 1 11.7	\$5,924 22 1 04.04 1 38.02 1 22.19
Earnings above operating expenses	\$22,814,179 29	\$28,617,411 28	\$29,166,268 55	\$24,771,546 55	\$22,604,671 83
Receipts in addition to earnings	\$1,214,589 31	\$1,800,928 88	\$1,867,469 19	\$1,255,017 08	\$926,865 10
Total receipts for the year	\$78,167,404 61	\$84,184,959 80	\$92,923,722 O4	\$81,028,424 48	\$88,146,594.88

Expense: Operating expenses,—maintenance of way and buildings Operating expenses,—motive power and cars. Operating expenses,—conducting transportation. Operating expenses,—general expenses	\$11,139,667 15 8,119,481 16 27,461,622 12 7,840,868 69	\$12,121,071 88 8,188,599 34 26,627,559 96 7,884,898 56	\$11,286,088 62 8,129,557 58 26,824,970 92 6,869,417 18	\$11,604,422 51 8,089,225 35 28,144,779 04 7,213,433 95	\$13,825,210,77 10,321,906 23 82,109,897 56 8,857,880 89
Total operating expenses.	\$54,138,685 01	\$54,216,624 19	\$52,889,984 90	\$55,001,860 85	\$84,614,854 95
Operating expenses per mile of road.  Operating expenses per train mile.  Operating expenses,—per cent of earnings.	\$4,860 07 0 87.9 70.85	\$5,958 \$2 0 87.97 65.45	#4,216 94 0 90.09	\$4,002 88 0 86.8 68.90	\$4,888 01 0 93,94 74,08
Interest and rentals,—total.  Interest and rentals per mile of road.  Interest and rentals per train mile.  Interest and rentals,—per cent of earnings	\$18,061,905 00 1,556 42 0 29.87 	\$18,540,819 85 1,466 09 0 30.08 21.81	\$17,855,110 88 1,489 87 0 90,75	\$18,678,487 16 1,362 91 0 29.47 28.40	\$19,621,896 78 1,882 77 0 27.49
Operating expenses, interest and rentals,—total	\$72,020,590 01	\$72,757,444 04	\$70,245,094 08	\$73,675,348 01	\$84,236,741 68
Operating expenses,—interest and rentals per mile of road	\$6,216 07 1 17.27 98.48	\$6,516 95 1 18.05 87.90	\$5,655 71 1 20.65 86.00	\$5,365 79 1 16.25 92.85	\$5,720 78 1 80.88 96.88
Average rate per ton mile.	\$0 00.824	\$0.00.890	\$0 01.090	¥0 00.794	\$0 00.75 <del>4</del>



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